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# GILBERT, HAWKINS, BUTTS ST. SIDEWALK PROJECT #1236



LOCATION MAP  
N.T.S.



**CITY OF GEORGETOWN  
GEORGETOWN SOUTH CAROLINA**

**NOVEMBER 6, 2023**

Prepared By:



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SC811	UTILITIES LOCATION SERVICE	811

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A	ISSUE FOR PERMITTING	BC										
B	ISSUE FOR BIDS	BC										
<p>DRAWN BY: LAM    CHKD BY: BC</p> <p>DATE : 11/6/23    REV. : -</p> <p>FILE: C2305.dwg</p>												



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**STANDARD NOTES**

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCRI00000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIRT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
  - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
  - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
  - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
  - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

**GENERAL NOTES**

- DIMENSIONS SHOWN ARE TO FACE OF WALL, BACK OF CURB OR EDGE OF ROAD/PAVEMENT, WHICHEVER IS APPLICABLE.
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY TO HAVE ALL UTILITIES MARKED PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES IN THE PROJECT AREA BEFORE EXCAVATING.
- THE CONTRACTOR SHALL TAKE EXTREME CAUTION TO PROTECT EXISTING UTILITIES. NOTIFY THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION. CALL BRYAN CAGLE AT 843-495-7452.
- ALL NEW PAVEMENTS SHALL HAVE A STRAIGHT, CLEAN AND VERTICAL EDGE FOR PLACEMENT AND SHALL BE COMPACTED ACCORDING TO SPECIFICATIONS WHERE NEW PAVEMENTS ABUT EXISTING PAVEMENTS OR STRUCTURES. NO ASPHALT OR CONCRETE SHALL BE PLACED, POURED OR SPLASHED ONTO EXISTING PAVEMENTS OR STRUCTURES. THE CONTRACTOR WILL BE RESPONSIBLE TO CLEAN OR REPLACE EXISTING PAVEMENTS OR STRUCTURES IF THIS OCCURS.
- REMOVE AND RELOCATE ALL SIGNS, MAILBOX POSTS, FENCING, POSTS AND OTHER STRUCTURES AS NECESSARY.
- SAWCUT A STRAIGHT, CLEAN, VERTICAL EDGE AT ALL LOCATIONS WHERE NEW SIDEWALK CONTINUES THROUGH EXISTING DRIVEWAYS. DEMOLISH AND REMOVE EXISTING ASPHALT OR CONCRETE AS SHOWN.
- DETECTABLE WARNING PADS SHALL BE INSTALLED AT ALL STREET CROSSING LOCATIONS AS SHOWN. DETECTABLE WARNING PADS SHALL BE ADA-COMPLIANT AND WET INSET TRUNCATED DOME MATS PER THE SCDOT STANDARD DRAWING 720-910-01, SEE SHEET C15. COLOR: YELLOW.
- REFER TO OTHER CIVIL SHEETS FOR ADDITIONAL NOTES AND DETAILS.

**GRADING NOTES**

- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES BY CALLING "SOUTH CAROLINA 811" AT 811 OR 1-888-721-7877 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR A REVIEW SHOULD ANY DISCREPANCIES BE DISCOVERED AT THE SITE OR ON THE DRAWINGS.
- EARTHWORK SHALL BE TO THE GRADES AND LINES SHOWN. COMPACTION TESTS SHALL BE ACCOMPLISHED IN THE FIELD TO TEST ALL AREAS. COMPACTION TESTS WILL BE CONDUCTED AT THE CONTRACTOR'S EXPENSE. RETESTING WILL BE CONDUCTED, IF REQUIRED, DUE TO POOR COMPACTION.
- ALL SOFT SPOTS SHALL BE STABILIZED BY FURTHER COMPACTIVE EFFORT OR UNDERCUT AND BACKFILLED WITH COMPACTED STRUCTURAL FILL MATERIAL.
- ALL NEW ELEVATIONS SHOWN ARE FINISH ELEVATIONS. THE GRADING CONTRACTOR SHALL DEDUCT THE APPROPRIATE AMOUNT FOR THE SUBGRADE.
- CONTRACTOR SHALL REMOVE TOPSOIL AS NECESSARY TO PROVIDE ADEQUATE SUBGRADE.
- TWELVE INCHES (12") OF SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR (ASTM D-698).
- ALL EROSION CONTROL MEASURES SHOWN AND STATED ON THIS PLAN ARE TO BE IMPLEMENTED THROUGH FINAL INSPECTION.
- STANDING GRASS MUST BE EVIDENT IN SEEDED DISTURBED AREAS BEFORE FINAL APPROVAL. 70% STABILIZATION IS REQUIRED IN ANY 2' x 2' SQUARE AREA PER SCDHEC.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR COMPACTION TESTS AND SUPPLY THE RESULTS BEFORE ANY PRELIMINARY AND/OR FINAL APPROVALS.
- MATCH EXISTING GRADE ELEVATIONS WHERE NEW SIDEWALK ABUTS EXISTING ASPHALT OR CONCRETE PAVEMENT AND DRIVEWAYS.
- DISTURBED AREA = 0.54 AC.
- ALL EXISTING WATER METER VALVE BOXES, SEWER CLEANOUTS OR OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO MATCH NEW SIDEWALK FINISHED GRADE ELEVATION. NEW COVER(S) SHALL BE INSTALLED TO REPLACE BROKEN COVER(S). COORDINATE WITH THE CITY OF GEORGETOWN UTILITIES DEPARTMENT.
- CONTRACTOR SHALL BE RESPONSIBLE TO HAUL ALL EXCESS EXCAVATED MATERIAL AND/OR DEBRIS OFF-SITE TO AN APPROVED LANDFILL.
- THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF SOUTH CAROLINA TO FLAG THE PROPERTY LINES AND TO PROVIDE A CERTIFIED AS-BUILT.

**SEQUENCE OF CONSTRUCTION**

- INSTALL TEMPORARY SILT FENCE AND OTHER EROSION CONTROL BMP'S AS SHOWN ON THE GRADING AND EROSION CONTROL PLANS.
- RELOCATE EXISTING SIGNAGE, FENCING, UTILITY POLES, POSTS, MAILBOXES OR OTHER STRUCTURES AS SHOWN ON PLANS.
- SAWCUT, DEMOLISH AND REMOVE EXISTING CONCRETE AND ASPHALT AS REQUIRED PER SITE PLANS.
- STRIP TOPSOIL AND UNSUITABLE SOILS FROM AREAS OF THE NEW CONCRETE SIDEWALKS. DISTURB ONLY THE LENGTH OF SIDEWALK TO BE POURED IN (1) ONE DAY.
- INSTALL STORM DRAINAGE.
- GRADE SIDEWALK AREA TO SUBGRADES AS REQUIRED PER GRADING PLANS.
- FORM AND POUR NEW SIDEWALK.
- MATCH GRADE AT ALL STREET CROSSINGS AND DRIVEWAYS.
- BACKFILL SHOULDERS ALONG SIDEWALK WITH CLEAN TOPSOIL AS REQUIRED.
- INSTALL PAVEMENT MARKINGS AS SHOWN ON PLANS.
- CLEANUP TRASH AND MATERIALS FROM THE SITE.
- SEED AND MULCH ALL DISTURBED AREAS TO BE GRASSED. IF HYDROSEEDING, DO NOT SPRAY HYDROSEED MIX ON NEW CONCRETE SIDEWALKS, OTHER PAVEMENTS OR STRUCTURES.
- ESTABLISH 70% GRASSING STABILIZATION ON DISTURBED AREAS NEXT TO THE NEW CONCRETE SIDEWALK.
- REMOVE TEMPORARY EROSION CONTROL BMPS.
- FINAL CLEANUP OF THE SITE.
- FINAL INSPECTION BY THE CIVIL ENGINEER, THE CITY OF GEORGETOWN ENGINEERING AND SCDOT.

**PERMANENT SEEDING REQUIREMENTS (SITE SPECIFIC)**

PERMANENT SEEDING MAY BE APPLIED DURING TIMES SHOWN. THE FOLLOWING TYPES OF SEED AND APPLICATION RATES ARE ALLOWED:  
 PLS - PURE LIVE SEED

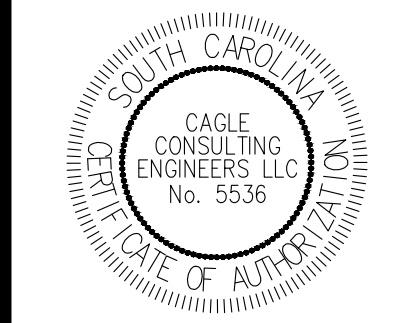
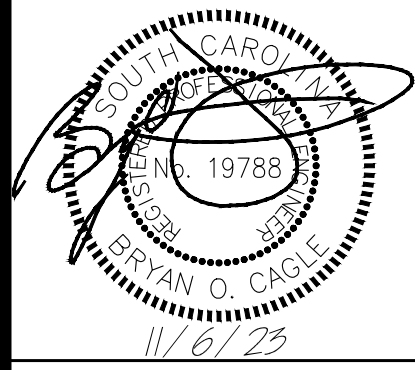
SPECIES	Lbs/Ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	NOV	DEC
SANDY, DROUGHTY SITES												
BROWNTOP MILLET	10											
BAHIAGRASS	40											
BROWNTOP MILLET	10											
BAHIAGRASS	30											
SERICEA LESPEDEZA	40											
BROWNTOP MILLET	10											
ATLANTIC COASTAL PANICGRASS	15 PLS											
BROWNTOP MILLET	10											
SWITCHGRASS (ALAMO)	8 PLS											
LITTLE BLUESTEM SERICEA LESPEDEZA	4											
	20											
BROWNTOP MILLET	10											
WEEPING LOVEGRASS	8											
WELL DRAINED, CLAYEY/LOAMEY SITES												
BROWNTOP MILLET	10											
BAHIAGRASS	40											
RYE, GRAIN	10											
BAHIAGRASS	40											
CLOVER, CRIMSON (ANNUAL)	5											
BROWNTOP MILLET	10											
BAHIAGRASS	30											
SERICEA LESPEDEZA	40											
BROWNTOP MILLET	10											
BERMUDA, COMMON	10											
SERICEA LESPEDEZA	40											
BROWNTOP MILLET	10											
BERMUDA, COMMON	12											
KOBE LESPEDEZA (ANNUAL)	10											
BROWNTOP MILLET	10											
BAHIAGRASS	20											
BERMUDA, COMMON	6											
SERICEA LESPEDEZA	40											
BROWNTOP MILLET	10											
SWITCHGRASS	8 PLS											
LITTLE BLUESTEM	3 PLS											
INDIANGRASS	3 PLS											

- APPLY TOPSOIL IF THE SURFACE SOIL OF THE SEEDBED IS NOT ADEQUATE FOR PLANT GROWTH.
- IF THE AREA HAS BEEN RECENTLY PLOWED, NO TILLAGE IS REQUIRED OTHER THAN RAKING OR SURFACE ROUGHENING TO BREAK ANY CRUST THAT HAS FORMED LEAVING A TEXTURED SURFACE. DISC THE SOIL FOR OPTIMAL GERMINATION WHEN THE SOIL IS COMPACTED LESS THAN 6-INCHES. IF THE SOIL IS COMPACTED MORE THAN 6-INCHES, SUB-SOILED AND DISC THE AREA.
- SOIL TESTING IS AVAILABLE THROUGH CLEMSON UNIVERSITY COOPERATIVE EXTENSION SERVICE.
- UNLESS A SPECIFIC SOIL TEST INDICATES OTHERWISE, APPLY 1½ TONS OF GROUND COURSE TEXTURED AGRICULTURAL LIMESTONE PER ACRE (70 POUNDS PER 1000 SQUARE FEET).
- APPLY A MINIMUM OF 1000 POUNDS PER ACRE OF A COMPLETE 10-10-10 FERTILIZER (23 POUNDS PER 1000 SQUARE FEET) OR EQUIVALENT DURING PERMANENT SEEDING OF GRASSES UNLESS A SOIL TEST INDICATES A DIFFERENT REQUIREMENT. INCORPORATE FERTILIZER AND LIME (IF USED) INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR OTHER MEANS WHERE CONDITIONS ALLOW. DO NOT MIX THE LIME AND THE FERTILIZER PRIOR TO THE FIELD APPLICATION.
- LOOSEN THE SURFACE OF THE SOIL JUST BEFORE BROADCASTING THE SEED. EVENLY APPLY SEED BY THE MOST CONVENIENT METHOD AVAILABLE FOR THE TYPE OF SEED APPLIED AND THE LOCATION OF THE SEEDING. TYPICAL APPLICATION METHODS INCLUDE BUT ARE NOT LIMITED TO CYCLONE SEEDERS, ROTARY SPREADERS, DROP SPREADERS, BROADCAST SPREADERS, HAND SPREADERS, CULTI-PACKER SEEDER, AND HYDRO-SEEDERS. COVER APPLIED SEED BY RAKING OR DRAGGING A CHAIN OR BRUSH MAT, AND THEN LIGHTLY FIRM THE AREA WITH A ROLLER OR CULTI-PACKER. DO NOT ROLL SEED THAT IS APPLIED WITH A HYDRO-SEEDER AND HYDRO-MULCH. 7-COVER ALL PERMANENT SEEDED AREAS WITH MULCH IMMEDIATELY UPON COMPLETION OF THE SEEDING APPLICATION TO RETAIN SOIL MOISTURE AND REDUCE EROSION DURING ESTABLISHMENT OF VEGETATION. APPLY THE MULCH EVENLY IN SUCH A MANNER THAT IT PROVIDES A MINIMUM OF 75% COVERAGE. TYPICAL MULCH APPLICATIONS INCLUDE STRAW, WOOD FIBER, HYDRO-MULCHES, BFM AND FGM. USE HYDRO-MULCHES WITH A MINIMUM BLEND OF 70% WOOD FIBERS.
- APPLY STRAW MULCH BY HAND OR MACHINE AT THE RATE 2 TONS PER ACRE (90 POUNDS PER 1000 SQUARE FEET). FREQUENT INSPECTIONS ARE NECESSARY TO CHECK THAT CONDITIONS FOR GROWTH ARE GOOD.
- KEEP PERMANENT SEEDED AREAS ADEQUATELY MOIST, ESPECIALLY LATE IN THE SPECIFIC GROWING SEASON. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS. WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF. RUNOFF OF IRRIGATION WATER WASTES WATER AND CAN CAUSE EROSION.
- INSPECT PERMANENTLY SEEDED AREAS FOR FAILURE, MAKE NECESSARY REPAIRS AND RE-SEED OR OVER-SEED WITHIN THE SAME GROWING SEASON IF POSSIBLE. IF THE GRASS COVER IS SPARSE OR PATCHY, RE-EVALUATE THE CHOICE OF GRASS AND QUANTITIES OF LIME AND FERTILIZER APPLIED. FINAL STABILIZATION BY PERMANENT SEEDING OF THE SITE REQUIRES THAT IT BE COVERED BY A 70% COVERAGE RATE.
- INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RE-SEED IMMEDIATELY. CONDUCT A FOLLOW-UP SURVEY AFTER ONE YEAR AND REPLACE FAILED PLANTS WHERE NECESSARY.
- IF VEGETATIVE COVER IS INADEQUATE TO PREVENT RILL EROSION, OVER-SEED AND FERTILIZE IN ACCORDANCE WITH SOIL TEST RESULTS.
- IF A STAND OF PERMANENT VEGETATION HAS LESS THAN 40 PERCENT COVER, RE-EVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER.
- RE-ESTABLISH THE STAND FOLLOWING SEED BED PREPARATION AND SEEDING RECOMMENDATIONS, OMITTING LIME AND FERTILIZER IN THE ABSENCE OF SOIL TEST RESULTS.
- IF THE SEASON PREVENTS RE-SOWING, MULCH IS AN EFFECTIVE TEMPORARY COVER.
- FINAL STABILIZATION OF THE SITE REQUIRES A 70 PERCENT OVERALL COVERAGE RATE. THIS DOES NOT MEAN THAT 30 PERCENT OF THE SITE CAN REMAIN BARE. THE COVERAGE IS DEFINED AS LOOKING AT A SQUARE YARD OF COVERAGE, IN WHICH 70 PERCENT OF THAT SQUARE YARD IS COVERED WITH VEGETATION.

**TEMPORARY SEEDING REQUIREMENTS (SITE SPECIFIC)**

TEMPORARY SEEDING MAY BE APPLIED DURING TIMES SHOWN. THE FOLLOWING TYPES OF SEED AND APPLICATION RATES ARE ALLOWED:

SPECIES	Lbs/Ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	NOV	DEC
SANDY, DROUGHTY SITES												
BROWNTOP MILLET 40												
RYE, GRAIN 56												
RYEGRASS 50												
WELL DRAINED, CLAYEY/LOAMEY SITES												
BROWNTOP MILLET 40												
OR JAPANESE MILLET 40												
RYE, GRAIN 56												
OR OATS 75												
RYEGRASS 50												



Project Name: **GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
 Project No: **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**STANDARD NOTES**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM    CHK'D BY: BC  
 DATE: 11/6/23    REV: -  
 SCALE: AS SHOWN    PROJ.#: C2305  
 FILE: C2305.dwg  
 SHEET NUMBER: **G1**



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**SCDOT STANDARD NOTES:**

1. THERE CAN BE NO WORK PERFORMED IN THE SCDOT R/W BEFORE AN ENCROACHMENT PERMIT HAS BEEN ISSUED AND A PRECONSTRUCTION MEETING HAS BEEN HELD. THE PROPERTY OWNER AND CONTRACTOR MUST SCHEDULE AND ATTEND THE PRECONSTRUCTION MEETING.
2. ANY WORK PERFORMED BEFORE THE PRECONSTRUCTION MEETING WILL HAVE TAKEN PLACE WITHOUT SCDOT KNOWLEDGE, OVERSIGHT, AND CONSENT AND SHALL BE SUBJECT TO REMOVAL BY THE APPLICANT AND/OR AT THE APPLICANT'S EXPENSE.
3. ANY REVISIONS TO THIS APPROVED PLAN SET MUST HAVE PRIOR, WRITTEN APPROVAL FROM SCDOT OR ARE SUBJECT TO REMOVAL AT THE APPLICANT'S EXPENSE.
4. THE CONSTRUCTION ENTRANCE MUST BE ESTABLISHED AT THE LOCATION DESIGNATED IN THIS PLAN SET AND ACCORDING TO SCDOT TYPICAL 815-805-00. NO ADDITIONAL ENTRANCES OR LOCATIONS OTHER THAN SHOWN IN THIS PLAN SET ARE ALLOWED WITHOUT WRITTEN NOTICE FROM SCDOT. APPROVED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PROPERLY AND SHALL BE MAINTAINED AT ALL TIMES. KEEP ROADWAY PROTECTED AND SWEEP OFF AT ALL TIMES. ANY ADDITIONAL, EXISTING DRIVEWAYS OR CONSTRUCTION ENTRANCES, IF ANY, SHALL BE REMOVED FROM SCDOT RIGHT OF WAY AT NO EXPENSE TO SCDOT.
5. NO DEWATERING ACTIVITIES SHALL BE PERFORMED WITHIN SCDOT R/W OR BRING FORTH WATER TO THE SCDOT RIGHT OF WAY BY DIRECT OR INDIRECT METHODS.
6. POST DEVELOPMENT STORMWATER FLOWS TO THE SCDOT R/W CANNOT EXCEED PREDEVELOPMENT FLOW RATES AT ANY TIME FOR ANY REASON.
7. THE APPLICANT IS SOLELY RESPONSIBLE FOR REPAIRS OF ANY AND ALL DAMAGE TO THE TRAVEL WAY DUE TO ANY WORK ALONG THE FRONTAGE OF THIS SITE, AT NO EXPENSE TO SCDOT AND ALL REPAIRS MUST MEET CURRENT SCDOT STANDARDS.
8. ANY DAMAGE TO THE TRAVEL LANE WILL REQUIRE A FULL DEPTH ASPHALT PATCH AND TOTAL ROADWAY (ALL ADJACENT TRAVEL LANES) ASPHALT OVERLAY. PATCHES LARGER THAN A FEW SQUARE FEET OR EXTENDING PAST 1 FOOT INTO THE TRAVEL LANE SHALL REQUIRE AN OVERLAY OF THE ENTIRE WIDTH OF THE EXISTING TRAVEL WAY FOR 50 FEET BEYOND EACH SIDE OF THE FULL DEPTH PATCH. ALL OF THIS WORK WILL BE SOLELY AT THE EXPENSE OF THE APPLICANT AND MUST MEET CURRENT SCDOT STANDARDS.
9. BEFORE INSTALLATION OF ANY NEW DRIVEWAY, THE EXISTING TRAVEL EDGE MUST BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM EDGE ALONG THE MOUTH OF THE PROPOSED DRIVEWAY. CARE MUST BE TAKEN TO NOT DAMAGE THE EDGE ONCE CUT. ANY DAMAGE TO THE TRAVEL LANE MUST BE REPAIRED AT THE APPLICANT'S EXPENSE.
10. PAVEMENT SECTION IN THE SCDOT R/W SHALL BE, AT A MINIMUM:
  - a. 6 INCHES OF COMPACTED GABC
  - b. 4 INCHES OF COMPACTED TYPE B BINDER COURSE HOT MIX ASPHALT
  - c. 2 INCHES OF COMPACTED TYPE B SURFACE COURSE HOT MIX ASPHALT
 SEE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR SURFACE COURSE HOT MIX ASPHALT INSTALLATION TIME AND TEMPERATURE RESTRICTIONS AND THERMO PLASTIC TIME AND TEMPERATURE RESTRICTIONS.
  - d. 8 INCHES OF COMPACTED GABC
  - e. 4 INCHES OF 4,000 PSI CONCRETE
 NO REINFORCEMENT WIRE, REBAR, OR METAL OF ANY KIND IS PERMITTED
11. DRIVEWAY LANES SHALL BE A MINIMUM OF 12 FEET IN WIDTH MEASURED FROM EDGE TO EDGE OF ASPHALT.
12. DRIVEWAY RADII SHALL BE 30 FEET. (UNLESS NOTED OTHERWISE ON THE SCDOT APPROVED PLANS.)
13. PAVEMENT MARKINGS SHALL BE THERMOPLASTIC WITH REFLECTIVE BEADS PER SECTION 627 OF THE SCDOT STANDARD SPECIFICATIONS:
  - a. ALL WHITE MARKINGS SHALL BE 125 MIL MINIMUM THICKNESS
  - b. ALL YELLOW MARKINGS SHALL BE 90 MIL MINIMUM THICKNESS
14. ALL PERMANENT SIGNAGE SHALL BE INSTALLED ON BREAKAWAY POSTS PER SCDOT STANDARD DRAWING 651-110-00 AND SHALL HAVE A 7 VERTICAL FOOT CLEARANCE FROM THE GROUND TO THE BOTTOM OF THE SIGN.
15. DRIVEWAYS SHALL BE CONSTRUCTED TO HAVE A MINIMUM OF A 2 FOOT GRASSED SHOULDER ON EACH SIDE OF THE DRIVEWAY THROAT.
16. DITCH SLOPES SHALL BE NO STEEPER THAN 3H:1V.
17. ALL DRIVEWAY CULVERTS SHALL BE INSTALLED AND SEALED ACCORDING TO SCDOT TYPICAL 714-205-01 DETAIL 4 AND 5 WITH AN AASHTO M 315 RUBBER GASKET SEAL, ON PROPER GRADE TO ALLOW FOR POSITIVE STORM WATER FLOW WITHIN THE PIPE AND TO/FROM ADJACENT PIPES/CROSS LINES.
18. ALL CULVERTS INSIDE OF THE SCDOT R/W ARE TO BE INSTALLED WITH BEVELED ENDS PER SCDOT STANDARD DRAWING 719-610-00 AND SEALED PER SCDOT STANDARD DRAWING 714-205-01 AND CANNOT BE COVERED UNTIL AFTER AN INSPECTION BY THE SCDOT INSPECTOR ASSIGNED TO THE PROJECT AT THE REQUIRED SCDOT PRECONSTRUCTION MEETING.
19. LANE CLOSURES ARE REQUIRED FOR ALL WORK WITHIN ONE FOOT OF THE TRAVEL WAY. SEE SCDOT LOCAL MAINTENANCE WORK RESTRICTIONS FOR ADDITIONAL INFORMATION.
20. SHOULDER CLOSURES ARE REQUIRED FOR ALL WORK IN THE SCDOT R/W BEYOND ONE FOOT FROM THE TRAVEL WAY.
21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE ALL REQUIRED INSPECTIONS IN ADVANCE. IF WORK REQUIRING INSPECTION IS PERFORMED WITHOUT PRIOR NOTICE BEING GIVEN TO SCDOT, THAT INSTALLATION SHALL BE SUBJECT TO REMOVAL AT THE APPLICANT'S EXPENSE. SEVERAL MEANS OF CONTACT WILL BE GIVEN AT THE PRECONSTRUCTION MEETING. FAILURE TO OBTAIN CONTACT IS NOT AN APPROVAL TO PROCEED WITH ANY WORK.
22. NO VEGETATION INSTALLED ON PRIVATE PROPERTY SHALL BLOCK THE SCDOT SIGHT TRIANGLES OR SIGHT DISTANCES FOR MOTORISTS INGRESS OR EGRESS FROM APPROVED DRIVEWAYS AND OR ROADWAY INTERSECTIONS. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR KEEPING OFFSITE LANDSCAPINGS PROPERLY MAINTAINED TO IMPROVE ALL SIGHT DISTANCES. THE PROPERTY OWNER SHALL ALSO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGES TO SIDEWALK, DRIVEWAY OR ROADWAY, UTILITY, DRAINAGE OR OTHER STRUCTURES DAMAGED DUE TO THE INSTALLATION OR EXISTENCE OF OFFSITE LANDSCAPING.
23. THE DEPARTMENT SHALL NOT BE RESPONSIBLE FOR DAMAGE TO ANY UTILITY STRUCTURES LOCATED WITHIN THE RIGHT-OF-WAY AS A RESULT OF ROUTINE HIGHWAY MAINTENANCE OPERATIONS. THESE STRUCTURES INCLUDE BUT ARE NOT LIMITED TO ARV, METERS, VALVES, MANHOLES, ALL TYPE OF PEDESTALS AND UTILITY LINES (OVERHEAD AND/OR UNDERGROUND). THE APPLICANT SHOULD USE MECHANICAL MOWERS TO CUT AROUND THESE TYPE STRUCTURES TO INCREASE VISIBILITY FOR HIGHWAY MAINTENANCE WORKERS.
24. APPLICANT IS RESPONSIBLE FOR THE INSTALLATION AND SECURING OF ANY VALVE OR MANHOLE RISERS AS NEEDED.
25. THE DEPARTMENT SHALL BE HELD HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS, DAMAGES AND LOSSES ASSOCIATED WITH WORK AS APPROVED UNDER THIS PERMIT APPLICATION. ANY SUCH DAMAGE CLAIMS RECEIVED BY THE DEPARTMENT SHALL BE THE RESPONSIBILITY OF THE APPLICANT TO PROCESS ACCORDINGLY. THE HOLD HARMLESS AGREEMENT SHALL BE FOR THE LIFE OF THE FACILITY, STRUCTURE(S) OR ENCROACHMENT AS IT REMAINS WITHIN PUBLIC RIGHT-OF-WAY.
26. APPLICANT IS RESPONSIBLE FOR THE REPAIR OF ANY TRAFFIC SIGNAL LOOPS/WIRES/HEAD/CABINETS IF DAMAGED DUE TO THIS INSTALLATION. ALL WORK SHALL BE APPROVED UNDER THE DIRECTION OF THE SCDOT DISTRICT SIGNAL SHOP AND PERFORMED BY A SCDOT APPROVED SIGNAL CONTRACTOR, AT NO EXPENSE TO THE DEPARTMENT.
27. IF REQUIRED UNDER THE APPROVED SCDOT ENCROACHMENT PERMIT, A THIRD PARTY TESTER SHALL BE REQUIRED AT THE APPLICANT'S EXPENSE TO PERFORM COMPACTION ANALYSIS AND WITNESS A PASSING PROOF ROLL ON ALL SUB-GRADE, BASE, AND ASPHALT. ONE THIRD PARTY INSPECTOR SHALL TAKE DENSITY READINGS AT RANDOM STATION NUMBERS. A SECOND (2ND) THIRD PARTY INSPECTOR/TESTER SHALL BE AT THE ASPHALT PLANT TESTING THE ASPHALT AT THE TIME THAT SURFACE ASPHALT IS BEING PRODUCED AND PUT DOWN ON THE JOB. ONE CORE SAMPLE (LOCATIONS TO BE DETERMINED) SHALL BE TAKEN AND WEIGHED BY THE THIRD PARTY INSPECTOR. ALL RESULTS TO BE SUBMITTED IN WRITING TO SCDOT FOR REVIEW THE FOLLOWING DAY. WINTER WORK RESTRICTIONS AND HOLIDAY WORK RESTRICTIONS MUST BE ADHERED TO. SEE PERMIT FOR MORE DETAILS.
28. AN INSPECTION DATE SHALL BE SET UP IN ADVANCE FOR WHICH THE INSPECTOR WILL COME OUT AND INSPECT THE SIDEWALK FORMS BEFORE POURING CONCRETE. DO NOT LEAVE MORE THAN A 2" DROP OFF UNATTENDED. NO MORE THAN A 2" DROP OFF OR A 3:1 DITCH SLOPE IS PERMITTED ANYWHERE WITHIN THE RIGHT OF WAY DUE TO THE CONSTRUCTION ASSOCIATED WITH THIS SIDEWALK. THE INSTALLATION OF SIDEWALK SHALL BE FLUSH WITH SHOULDER OR HAVE A DRAINAGE INLET BUILT UNDERNEATH TO ALLOW FOR PROPER STORM WATER FLOW. NO WATER SHALL POND IN SHOULDER, ROADWAY, DRIVEWAYS, OR RIGHT OF WAY DUE TO THIS INSTALLATION.
29. ADA MATS (RAISED DETECTABLE WARNING PADS) SHALL BE INSTALLED AS WET INSETS AND AT ROADWAY INTERSECTIONS ONLY.
30. NO VALVES OR OTHER APPURTENANCES IN ROADWAY ASPHALT, WITHIN 5 FEET OF EDGE OF PAVEMENT, OR WITHIN DITCH LINE OR SWALE LINE. APPLICANT SHALL INSTALL 8-16 FEET OF NEW UNDAMAGED RCP ON PROPER GRADE, FACING THE PROPER DIRECTION, MATCHING THE DIAMETER OF DRIVEWAY AND/OR CROSS LINE UPSTREAM, BUT NOT EXCEEDING THE PIPE DIAMETER DOWNSTREAM, IF THE ABOVE CANNOT BE AVOIDED. INSTALL RIP RAP AROUND ANY EXPOSED PIPES, COVER AND SOD TO MEET SCDOT MINIMUM STANDARDS. CALL SCDOT ENCROACHMENT OFFICE FOR INSPECTION OF PIPE BEFORE COVERING.
31. PROPOSED UTILITY INSTALLATION LOCATED IN SHOULDER AREA SHALL HAVE A MINIMUM COVER OF 42" ACCORDING TO FIGURE 6 OF APPENDIX B. ANY EXPOSED ROOTS TO BE REMOVED OR TRIMMED FLUSH WITH SHOULDER/DITCH.

**ENCROACHMENT PERMIT GENERAL PROVISIONS:**

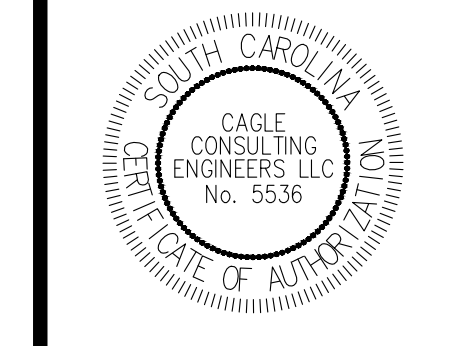
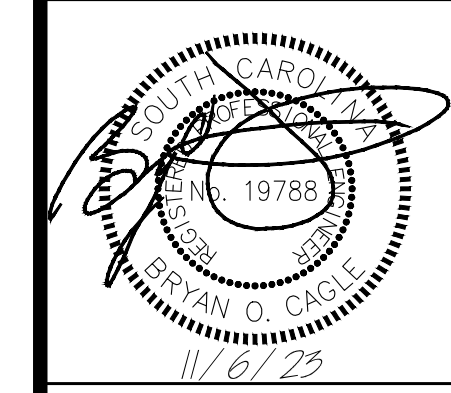
1. DEFINITIONS: THE WORD "PERMITTEE" USED HEREIN SHALL MEAN THE NAME OF THE PERSON, FIRM, OR CORPORATION TO WHOM THIS PERMIT IS ADDRESSED, HIS, HER, ITS, HEIRS, PERSONAL REPRESENTATIVES, SUCCESSORS AND ASSIGNS. THE WORD "DEPARTMENT" SHALL MEAN THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION.
2. NOTICE PRIOR TO STARTING WORK: BEFORE STARTING THE WORK CONTEMPLATED HEREIN WITHIN THE LIMITS OF THE HIGHWAY RIGHT OF WAY, THE DEPARTMENT'S RESIDENT MAINTENANCE ENGINEER IN THE COUNTY IN WHICH THE PROPOSED WORK IS LOCATED SHALL BE NOTIFIED 24 HOURS IN ADVANCE SO THAT HE MAY BE PRESENT WHILE THE WORK IS UNDER WAY.
3. PERMIT SUBJECT TO INSPECTION: THIS PERMIT SHALL BE KEPT AT THE SITE OF THE WORK AT ALL TIMES WHILE SAID WORK IS UNDER WAY AND MUST BE SHOWN TO ANY REPRESENTATIVE OF THE DEPARTMENT OR LAW ENFORCEMENT OFFICER ON DEMAND.
4. PROTECTION OF HIGHWAY TRAFFIC: THE APPLICANT SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE HIGHWAY TRAFFIC AT ALL TIMES DURING THE CONSTRUCTION, MAINTENANCE, REMOVING OR MOVING OF THE ENCROACHMENT PERMITTED HEREIN. DETOURS, BARRICADES, WARNING SIGNS AND FLAGMEN, AS NECESSARY, SHALL BE PROVIDED BY AND AT THE EXPENSE OF THE PERMITTEE AND SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). THE WORK SHALL BE PLANNED AND CARRIED OUT SO THAT THERE WILL BE THE LEAST POSSIBLE INCONVENIENCE TO THE MOTORING PUBLIC. THE PERMITTEE AGREES TO OBSERVE ALL RULES AND REGULATIONS OF THE DEPARTMENT WHILE CARRYING ON THE WORK CONTEMPLATED HEREIN AND TAKE ALL OTHER PRECAUTIONS THAT CIRCUMSTANCES WARRANT.
5. STANDARDS OF CONSTRUCTION: ALL WORK SHALL CONFORM TO THE DEPARTMENT'S STANDARDS OF CONSTRUCTION AND SHALL BE PERFORMED IN A WORKMAN-LIKE MANNER. THE APPLICANT SHALL MAKE ADEQUATE PROVISIONS FOR MAINTAINING THE PROPER DRAINAGE OF THE HIGHWAY AS IT MAY BE AFFECTED BY THE ENCROACHMENT PERMITTED HEREIN. ALL WORK SHALL BE SUBJECT TO THE SUPERVISION AND SATISFACTION OF THE DEPARTMENT.
6. FUTURE MOVING OF PHYSICAL APPURTENANCES: IF, IN THE OPINION OF THE STATE HIGHWAY ENGINEER, IT SHOULD EVER BECOME NECESSARY TO MOVE OR REMOVE THE PHYSICAL APPURTENANCES, OR ANY PART THEREOF CONTEMPLATED HEREIN, ON ACCOUNT OF CHANGE IN LOCATION OF THE HIGHWAY, WIDENING OF THE HIGHWAY, OR FOR ANY OTHER SUFFICIENT REASON, SUCH MOVING SHALL BE DONE ON DEMAND OF THE DEPARTMENT AT THE EXPENSE OF THE PERMITTEE.
7. RESTORATION OF HIGHWAY FACILITIES UPON MOVING OR REMOVING OF PHYSICAL APPURTENANCES: IF, NO WHEN, THE PHYSICAL APPURTENANCES CONTEMPLATED HEREIN SHALL BE MOVED OR REMOVED, EITHER ON THE DEMAND OF THE DEPARTMENT OR AT THE OPTION OF THE PERMITTEE, THE HIGHWAY AND FACILITIES SHALL IMMEDIATELY BE RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE PERMITTEE.
8. COSTS: ALL WORK IN CONNECTION WITH THE CONSTRUCTION, MAINTENANCE, MOVING OR REMOVING OF THE PHYSICAL APPURTENANCES CONTEMPLATED HEREIN SHALL BE DONE BY AND AT THE EXPENSE OF THE PERMITTEE.
9. ADDITIONAL PERMISSIONS:
  - (A) IT IS DISTINCTLY UNDERSTOOD THAT THIS PERMIT DOES NOT IN ANY WAY GRANT OR RELEASE ANY RIGHTS LAWFULLY POSSESSED BY THE ABUTTING PROPERTY OWNERS. THE PERMITTEE SHALL SECURE ANY SUCH RIGHTS, AS NECESSARY, FROM SAID ABUTTING PROPERTY OWNERS.
  - (B) THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING ALL OTHER APPROVALS OR PERMITS NECESSARY FOR INSTALLATION OF THE ENCROACHMENT FROM OTHER GOVERNMENT ENTITIES.
  - (C) THERE SHALL BE NO EXCAVATION OF SOIL NEARER THAN TWO FEET TO ANY PUBLIC UTILITY LINE OR APPURTENANT FACILITY EXCEPT WITH THE CONSENT OF THE OWNER THEREOF, OR EXCEPT UPON SPECIAL PERMISSION OF THIS DEPARTMENT AFTER AN OPPORTUNITY TO BE HEARD IS GIVEN THE OWNER OF SUCH LINE OR APPURTENANT FACILITY.

**ENCROACHMENT PERMIT GENERAL PROVISIONS (CONTINUED):**

10. ADDITIONAL WORK PERFORMANCE:
  - (A) ALL CROSSINGS OVER THE HIGHWAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH "SPECIFICATIONS FOR OVERHEAD CROSSINGS OF LIGHT AND POWER TRANSMISSION LINES AND TELEGRAPH LINES OVER EACH OTHER AND OVER HIGHWAY RIGHTS OF WAY IN SOUTH CAROLINA," AS APPROVED BY THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA AND EFFECTIVE AS OF DATE OF THIS PERMIT.
  - (B) ALL TUNNELING, BORING, OR JACKING SHALL BE DONE IN SUCH A WAY AS NOT TO DISTURB THE HIGHWAY SURFACING.
  - (C) NO PAVEMENT SHALL BE CUT UNLESS SPECIFICALLY AUTHORIZED HEREIN.
  - (D) NO EXCAVATION SHALL BE NEARER THAN THREE FEET TO THE EDGE OF PAVEMENT UNLESS SPECIFICALLY AUTHORIZED HEREIN.
  - (E) UNDERGROUND FACILITIES WILL BE LOCATED AT MINIMUM DEPTHS AS DEFINED IN THE "UTILITY ACCOMMODATIONS MANUAL" FOR THE TRANSMITTANT, GENERALLY AS FOLLOWS: 4 FEET MINIMUM FOR HAZARDOUS OR DANGEROUS TRANSMITTANT, 3 FEET MINIMUM FOR OTHER LINES. THE DEPARTMENT MAY APPROVE SHALLOWER DEPTHS IF ADEQUATE PROTECTION IS PROVIDED. SUCH APPROVAL MUST BE OBTAINED IN WRITING.
  - (F) SERVICE AND OTHER SMALL DIAMETER PIPES SHALL BE JACKED, DRIVEN, OR OTHERWISE FORCED UNDERNEATH THE PAVEMENTS ON ANY SURFACED ROAD WITHOUT DISTURBING THE PAVEMENT. THE SECTION UNDER THE HIGHWAY PAVEMENT AND WITHIN A DISTANCE OF THREE (3) FEET ON EITHER SIDE SHALL BE CONTINUOUS WITHOUT JOINTS.
11. ACCESS:
  - (A) PERMITTEE IS RESPONSIBLE FOR MAINTAINING REASONABLE ACCESS TO PRIVATE DRIVEWAYS DURING CONSTRUCTION.
  - (B) IT IS EXPRESSLY PROVIDED THAT, WITH RESPECT TO ANY LIMITED ACCESS HIGHWAY, THE PERMITTEE SHALL NOT HAVE OR GAIN ACCESS FROM THE MAIN TRAVELED WAY OF THE HIGHWAY, OR THE ON OR OFF RAMP TO SUCH FACILITY, EXCEPT UPON APPROVAL BY THE DEPARTMENT.
12. DRIVEWAYS:
  - (A) THE EXISTING CROWN OF THE HIGHWAY SHALL BE CONTINUED TO THE OUTSIDE SHOULDER LINE OF THE HIGHWAY.
  - (B) IF THE DRIVEWAY OR APPROACH IS CONCRETE PAVEMENT, THE PAVEMENT SHALL BE CONSTRUCTED AT LEAST 6 INCHES THICK AND WITH A MINIMUM OF CLASS 2500 CONCRETE. THERE SHALL BE A BITUMINOUS EXPANSION JOINT, NOT LESS THAN 3/4 INCHES IN THICKNESS, PLACED BETWEEN THE HIGHWAY PAVING AND THE PAVING OF THE APPROACH FOR THE FULL WIDTH OF THE APPROACH.
13. BEAUTIFICATION:
  - (A) ALL TREES, PLANTS, FLOWERS, ETC. SHALL BE PLACED IN ACCORDANCE WITH THE PROVISIONS SPECIFICALLY STIPULATED HEREIN.
  - (B) ALL TREES, PLANTS, FLOWERS, ETC. SHALL BE MAINTAINED BY, AND AT THE EXPENSE OF, THE PERMITTEE AND THE PROVISIONS OF THIS PERMIT SHALL BECOME NULL AND VOID, IF AND WHEN SAID PERMITTEE CEASES TO MAINTAIN AID TREES, PLANTS, FLOWERS, ETC.
14. AS-BUILT PLANS:
  - (A) THE APPLICANT SHALL PROVIDE THE DEPARTMENT WITH SURVEY-QUALITY AS-BUILT PLANS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE DEPARTMENT'S "A POLICY FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHTS OF WAY".

**ENCROACHMENT PERMIT SPECIAL PROVISIONS:**

- 0003 - WHEN ROADS ARE RESURFACED, SHOULDERS SHALL BE REGRADED TO THE EDGE OF PAVEMENT TO CONFORM TO THE DEPARTMENT SPECIFICATIONS.
- 0004 - SCDOT SHALL BE NOTIFIED WHEN WORK DEFINED IN THE PERMIT STARTS AS WELL AS WHEN THE WORK IS COMPLETED. REFERENCE SHALL BE MADE BY PERMIT NUMBER.
- 0123 - ALL WORK PERFORMED IN CONNECTION WITH THIS PERMIT SHALL CONFORM TO THE SCDOT "A POLICY FOR ACCOMODATING UTILITIES ON HIGHWAY RIGHT-OF-WAY" MOST CURRENT EDITION.
- 0210 - ALL SIDEWALKS TO INCLUDE AT DRIVEWAY RADIUS SHALL MEET (ADAAG) AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES.
- 0309 - THE PERMITTEE SHALL MAKE THE INSTALLATION UNDER THE SUPERVISION OF THE DEPARTMENT AND SHALL NOT BLOCK TRAFFIC AT ANY TIME.
- 0310 - FIELD CHANGES, IF NECESSARY, MUST BE APPROVED IN WRITING BEFORE ACTUAL CONSTRUCTION OF PROPOSED CHANGES.
- 0312 - THE PERMITTEE SHALL HOLD THE DEPARTMENT HARMLESS FOR DAMAGES TO BOTH UPSTREAM AND DOWNSTREAM PROPERTIES.
- 0316 - ALL NON-PERMITTED OBJECTS ON THE RIGHT-OF-WAY, WHICH MUST BE REMOVED, SHALL NOT BE REPLACED ON THE RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION OF THE DEPARTMENT.
- 0318 - THE APPLICANT SHALL BE RESPONSIBLE FOR IMMEDIATE REMOVAL OF SUCH TRAFFIC HAZARDS AS MUD, DEBRIS, LOOSE STONE, AND TRASH AS MAY BE WASHED OR SPILLED ON THE TRAVELED ROADWAY AS A RESULT OF THE PROPOSED WORK.



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name: **CITY OF GEORGETOWN, SC**

Project No: **1236**

Site Address:

**SCDOT STANDARD NOTES**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM    CHK'D BY: BC

DATE: 11/6/23    REV: -

SCALE: AS SHOWN    PROJ.#: C2305

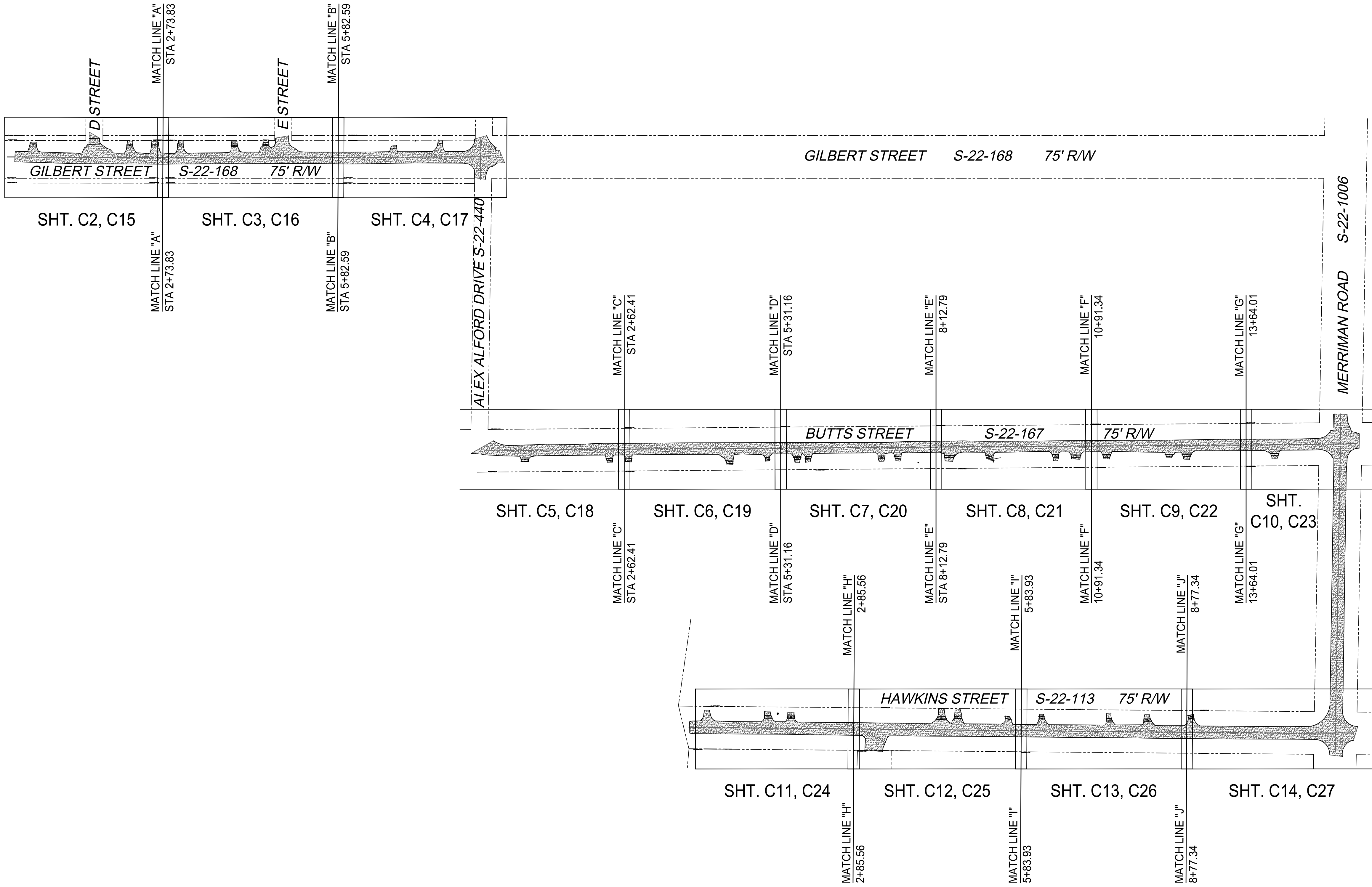
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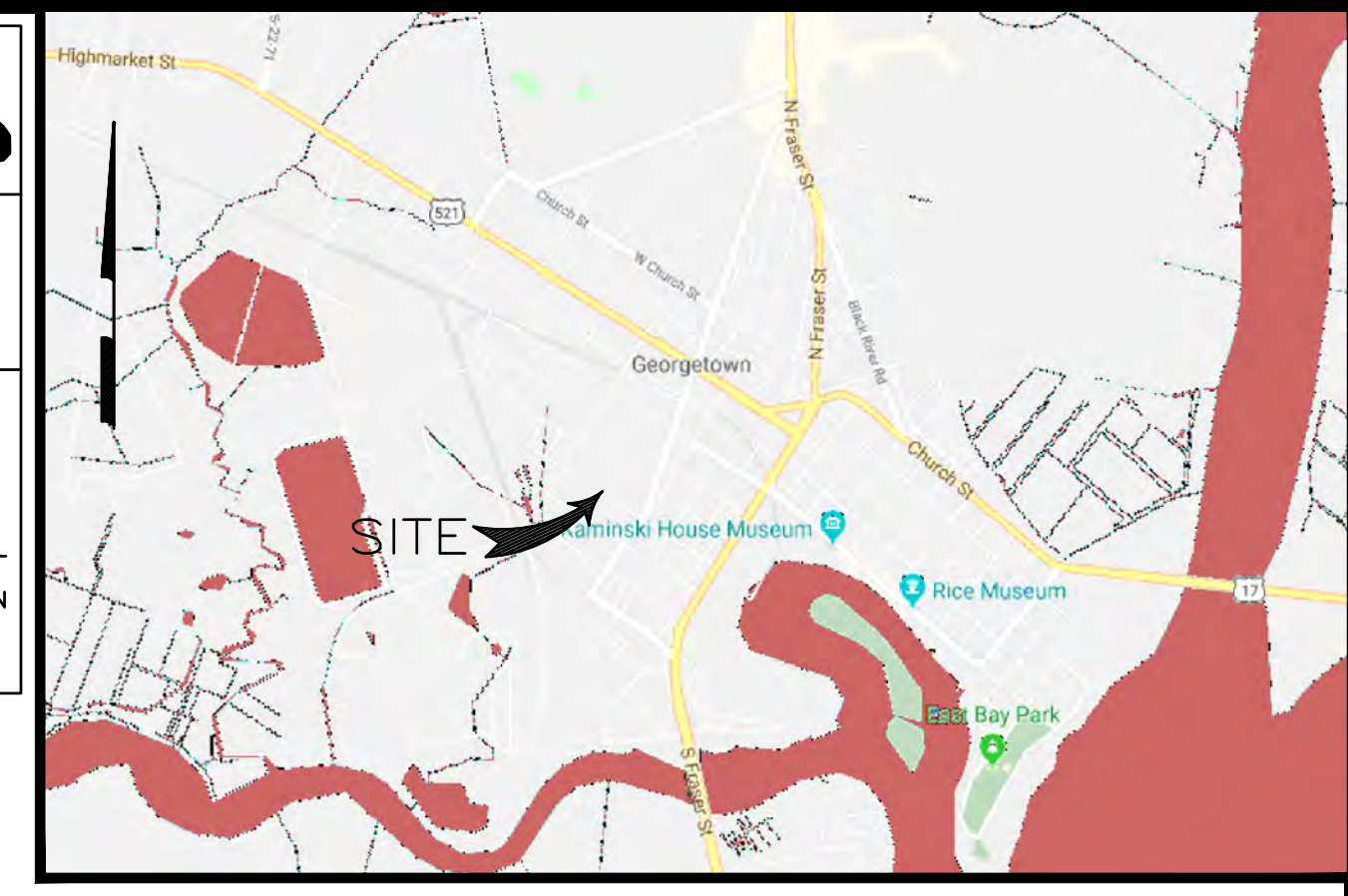
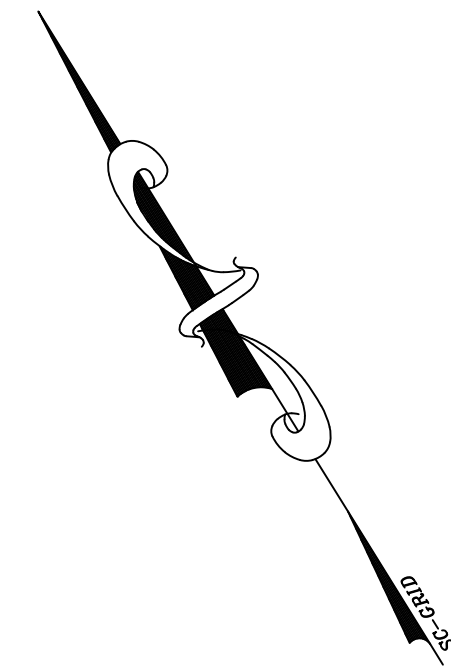


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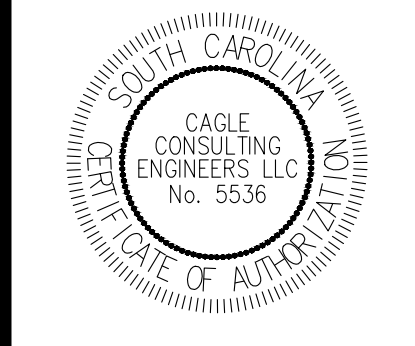
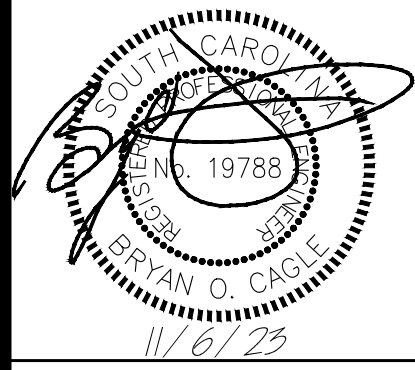
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**LOCATION MAP**  
N.T.S.

**CAGLE CONSULTING ENGINEERS LLC**  
 PLANNING & DESIGN

Post Office Box 3706, Florence, South Carolina 29502  
 Ph. (843) 495-7452  
 cagleengr@gmail.com



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

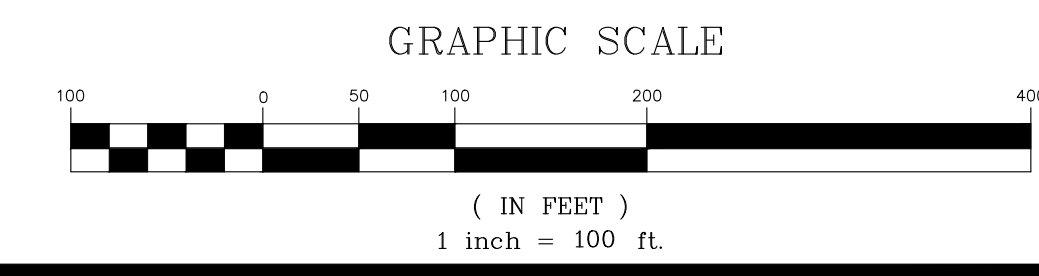
**EXISTING SITE PLAN**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

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 DATE: 11/6/23    REV: -  
 SCALE: AS SHOWN    PROJ.#: C2305  
 FILE: C2305.dwg

SHEET NUMBER:

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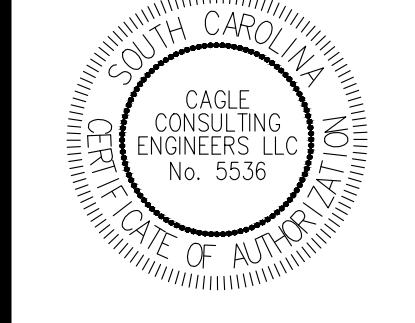
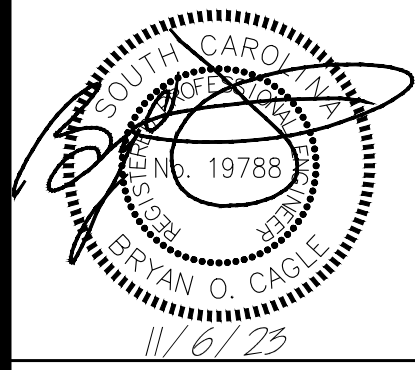
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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

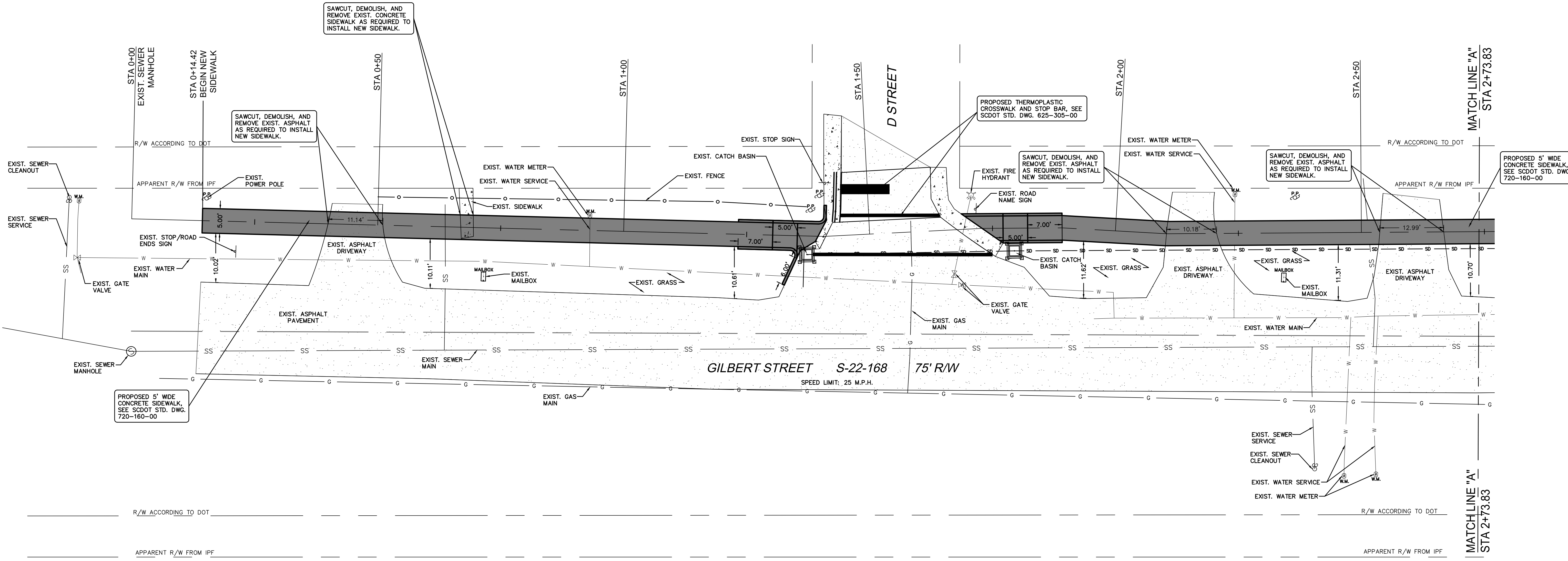
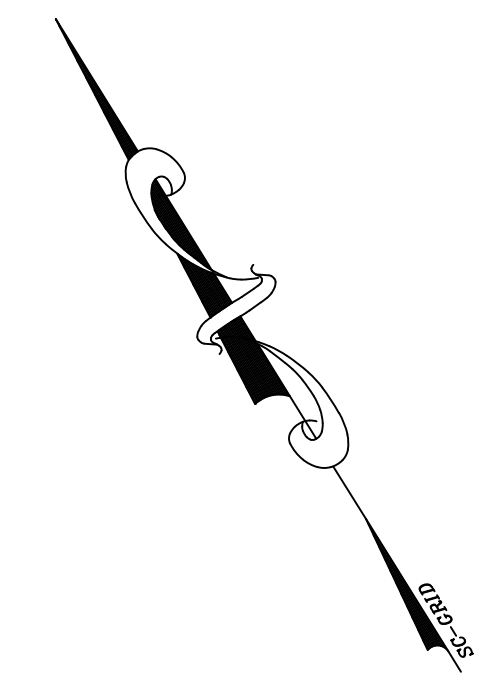
Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**PROPOSED SITE PLAN (GILBERT STREET)**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

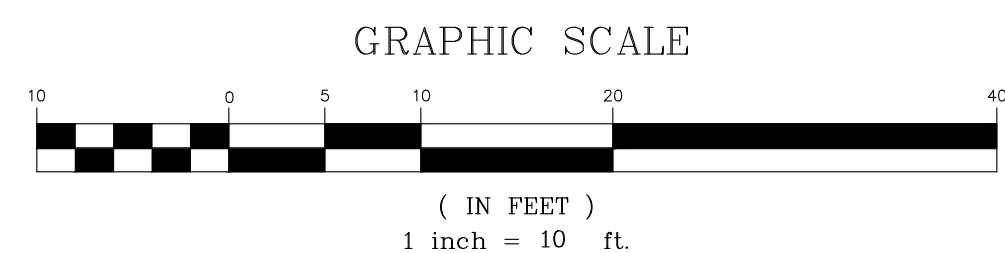
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 DATE: 11/6/23 | REV: -  
 SCALE: AS SHOWN | PROJ.#: C2305  
 FILE: C2305.dwg  
 SHEET NUMBER: **C2**

- LEGEND**  
(EXISTING)
- RIGHT-OF-WAY
  - EXISTING IRON PIN FOUND
  - EXISTING GAS LINE
  - EXISTING UTILITY POLE
  - EXISTING LIGHT POLE
  - EXISTING SEWER LINE
  - EXISTING SEWER MANHOLE
  - EXISTING SEWER CLEANOUT
  - EXISTING FIRE HYDRANT
  - EXISTING WATER LINE
  - EXISTING GATE VALVE
  - EXISTING WATER METER
  - EXISTING CATCH BASIN
  - EXISTING STORM DRAIN LINE
  - EXISTING EDGE OF PAVEMENT
  - EXISTING STREET SIGN
  - EXISTING MAILBOX
  - EXISTING FENCE



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**PROPOSED SITE PLAN (GILBERT STREET)**





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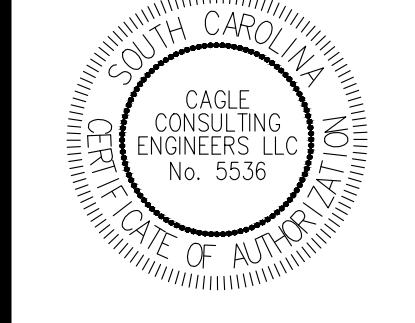
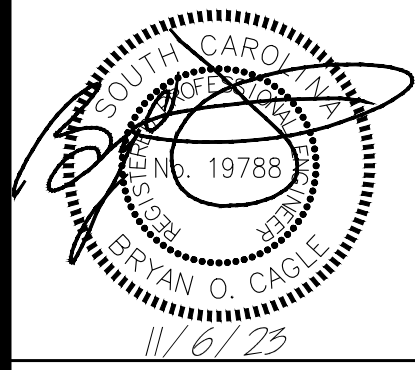
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 cogleengr@gmail.com



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

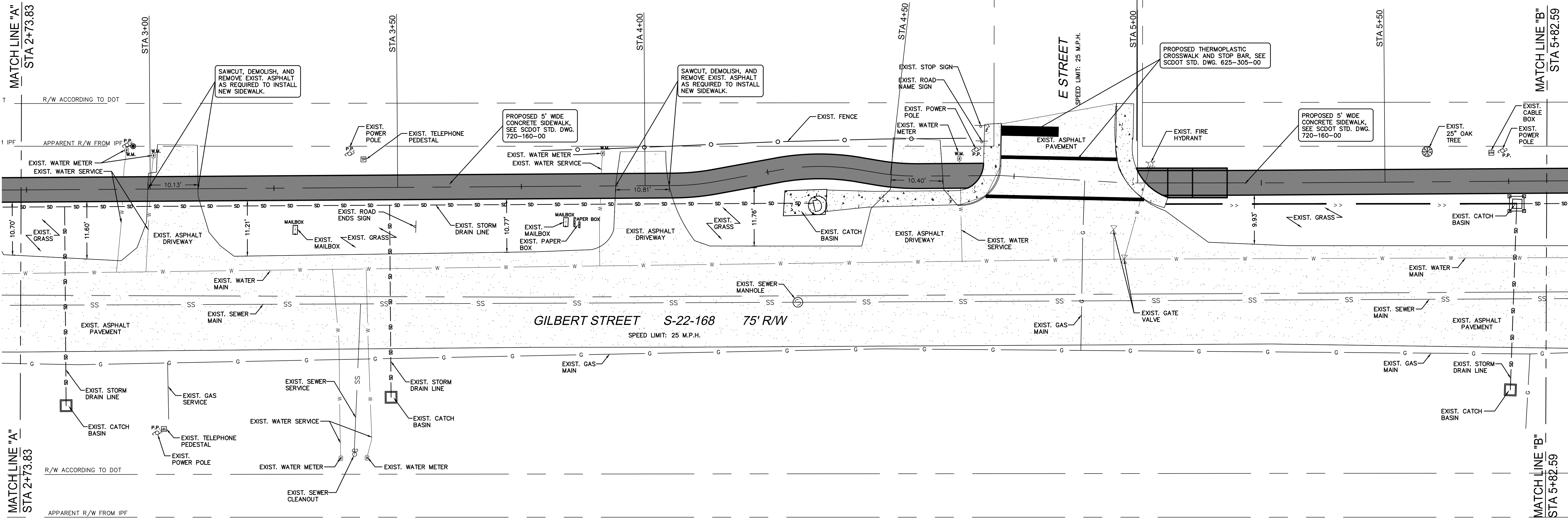
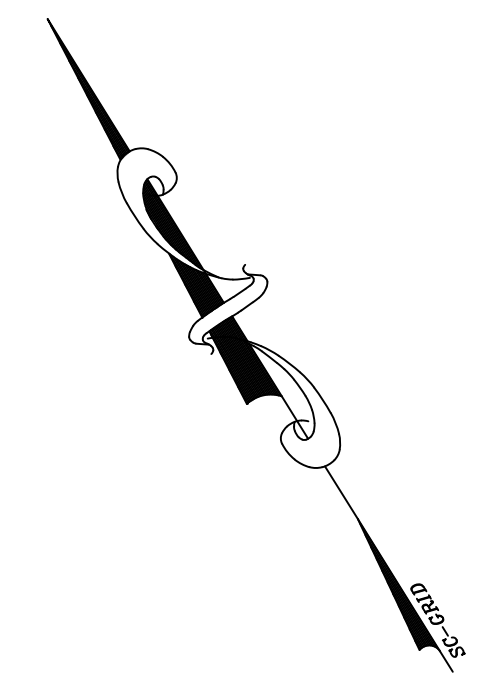
Project Name:  
 Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**PROPOSED SITE PLAN (GILBERT STREET)**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

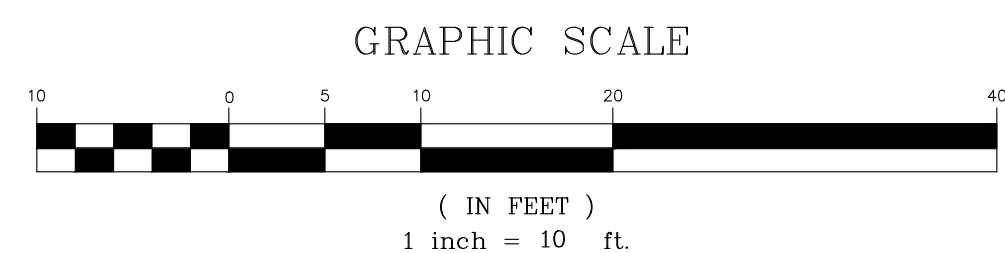
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 DATE: 11/6/23    REV: -  
 SCALE: AS SHOWN    PROJ.#: C2305  
 FILE: C2305.dwg  
 SHEET NUMBER:  
**C3**

- LEGEND**  
(EXISTING)
- RIGHT-OF-WAY
  - EXISTING IRON PIN FOUND
  - EXISTING GAS LINE
  - EXISTING UTILITY POLE
  - EXISTING LIGHT POLE
  - EXISTING SEWER LINE
  - EXISTING SEWER MANHOLE
  - EXISTING SEWER CLEANOUT
  - EXISTING FIRE HYDRANT
  - EXISTING WATER LINE
  - EXISTING GATE VALVE
  - EXISTING WATER METER
  - EXISTING CATCH BASIN
  - EXISTING STORM DRAIN LINE
  - EXISTING EDGE OF PAVEMENT
  - EXISTING STREET SIGN
  - EXISTING MAILBOX
  - EXISTING FENCE



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**PROPOSED SITE PLAN (GILBERT STREET)**





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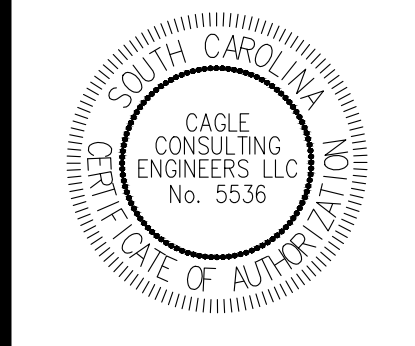
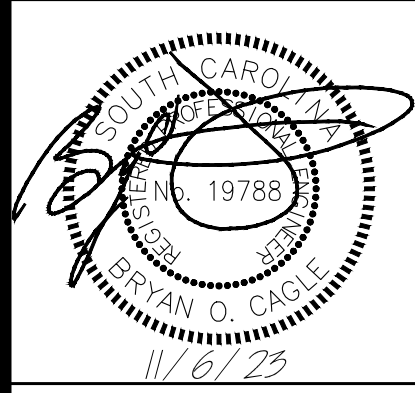
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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

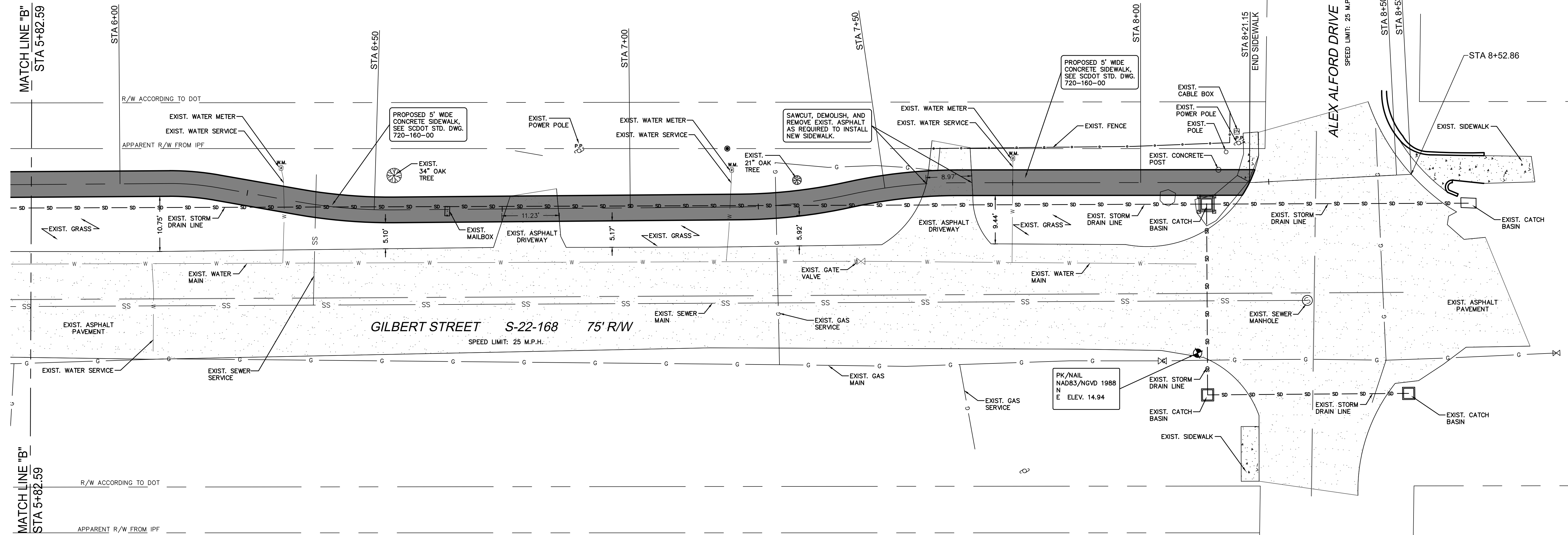
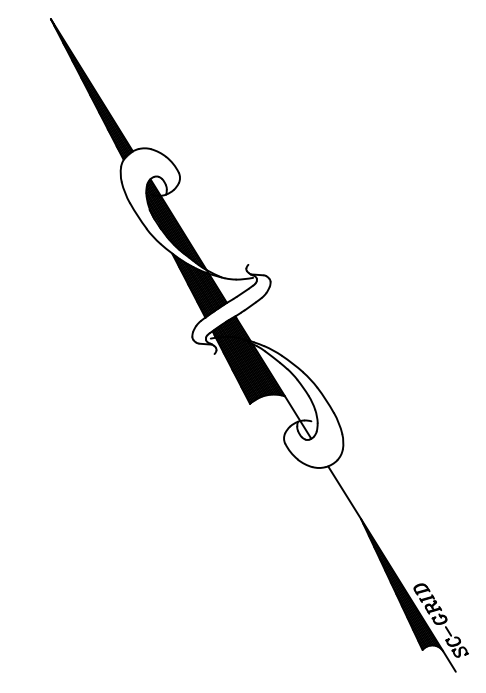
Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**PROPOSED SITE PLAN (GILBERT STREET)**

REV	DESCRIPTION	BY
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B	ISSUE FOR BIDS	BC

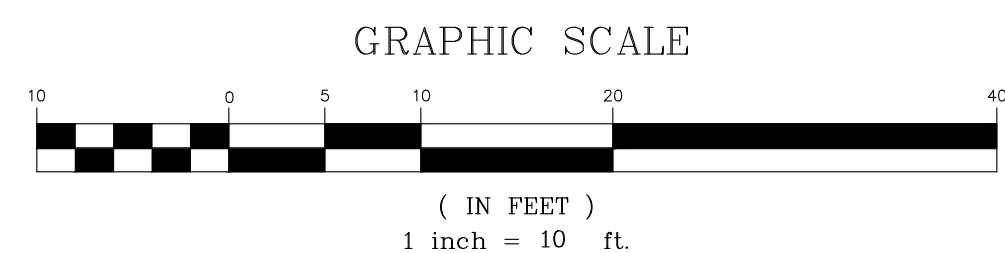
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 DATE: 11/6/23 | REV: -  
 SCALE: AS SHOWN | PROJ.#: C2305  
 FILE: C2305.dwg  
 SHEET NUMBER: **C4**

- LEGEND (EXISTING)**
- RIGHT-OF-WAY
  - EXISTING IRON PIN FOUND
  - EXISTING GAS LINE
  - EXISTING UTILITY POLE
  - EXISTING LIGHT POLE
  - EXISTING SEWER LINE
  - EXISTING SEWER MANHOLE
  - EXISTING SEWER CLEANOUT
  - EXISTING FIRE HYDRANT
  - EXISTING WATER LINE
  - EXISTING GATE VALVE
  - EXISTING WATER METER
  - EXISTING CATCH BASIN
  - EXISTING STORM DRAIN LINE
  - EXISTING EDGE OF PAVEMENT
  - EXISTING STREET SIGN
  - EXISTING MAILBOX
  - EXISTING FENCE



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**PROPOSED SITE PLAN (GILBERT STREET)**





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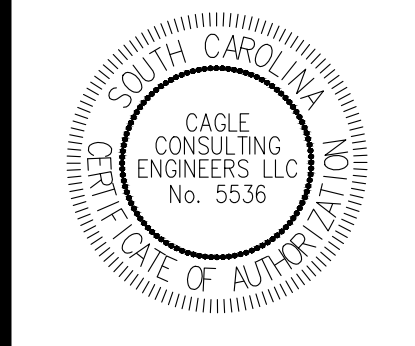
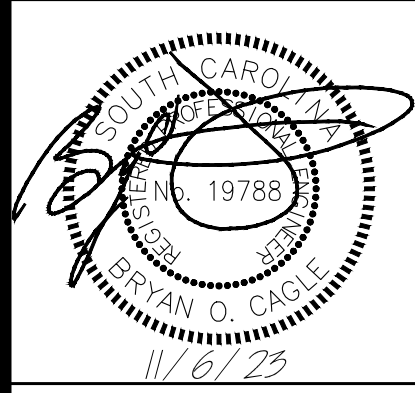
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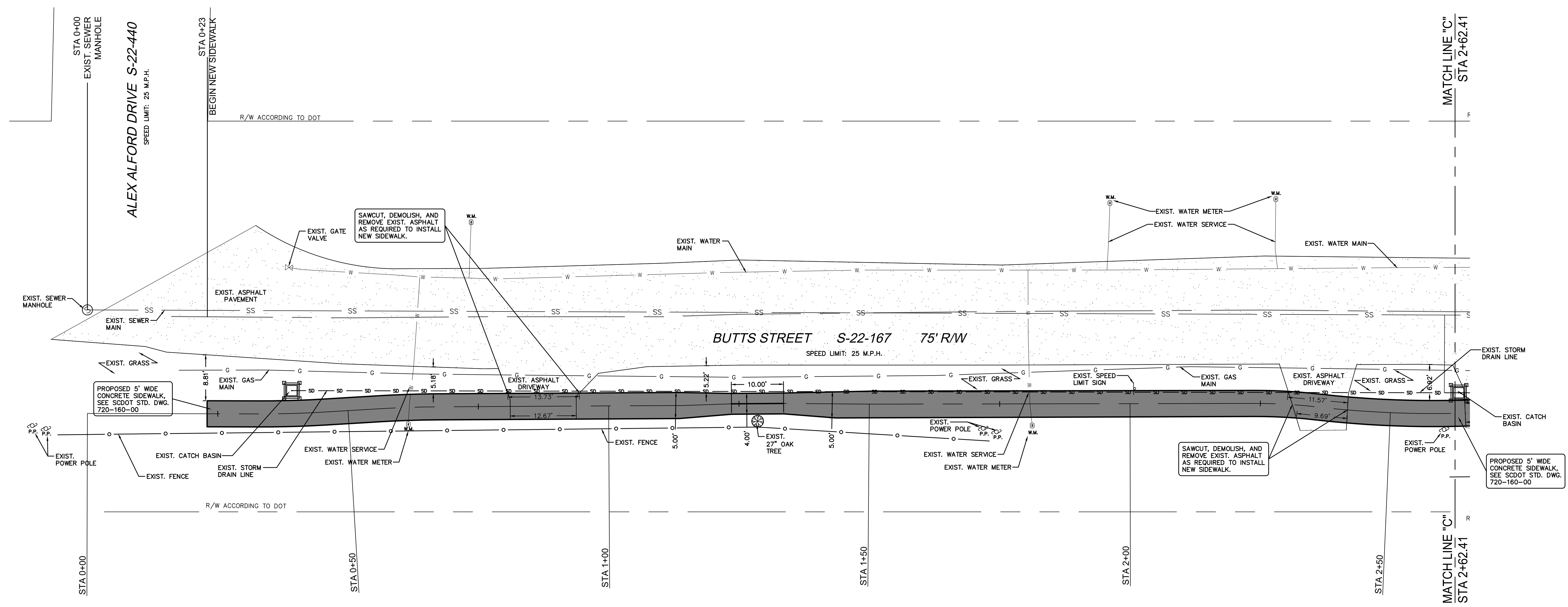
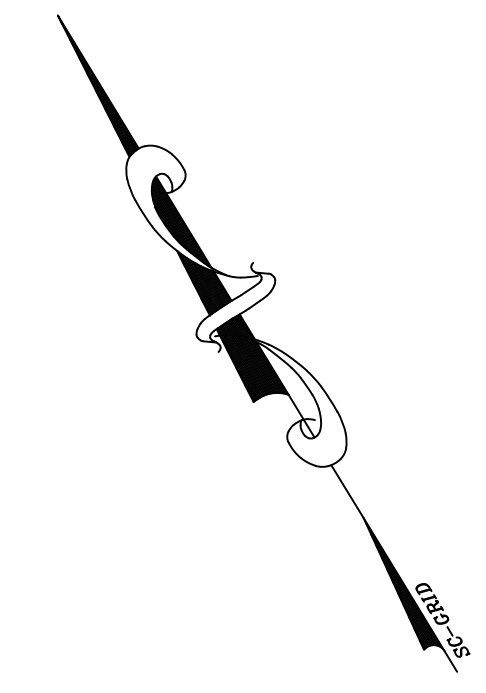
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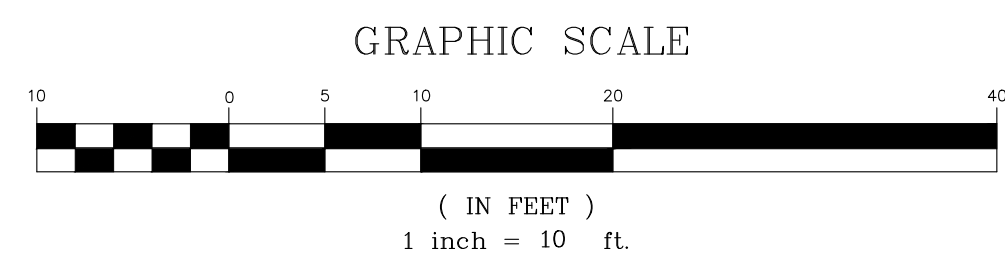
**LEGEND (EXISTING)**

---	RIGHT-OF-WAY
●	EXISTING IRON PIN FOUND
G	EXISTING GAS LINE
*	EXISTING UTILITY POLE
SS	EXISTING SEWER LINE
⊙	EXISTING SEWER MANHOLE
⊙	EXISTING SEWER CLEANOUT
W	EXISTING FIRE HYDRANT
W	EXISTING WATER LINE
X	EXISTING GATE VALVE
□	EXISTING WATER METER
□	EXISTING CATCH BASIN
---	EXISTING STORM DRAIN LINE
---	EXISTING EDGE OF PAVEMENT
---	EXISTING STREET SIGN
---	EXISTING MAILBOX
---	EXISTING FENCE



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**PROPOSED SITE PLAN (BUTTS STREET)**



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name:  
 Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**PROPOSED SITE PLAN (BUTTS STREET)**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

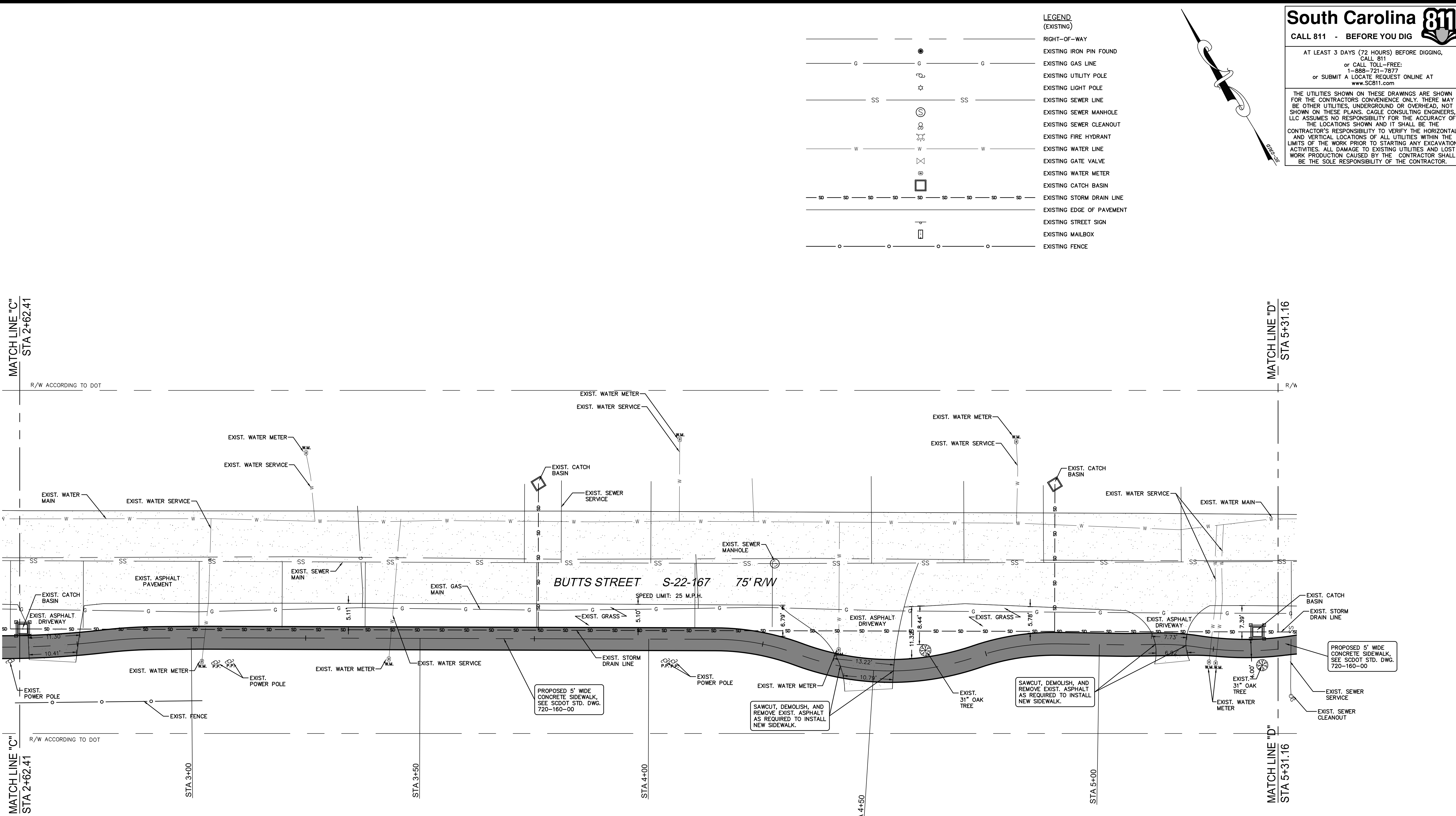
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 DATE: 11/6/23    REV: -  
 SCALE: AS SHOWN    PROJ.#: C2305  
 FILE: C2305.dwg

SHEET NUMBER:  
**C5**



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MATCH LINE "C"  
STA 2+62.41



- LEGEND**  
(EXISTING)
- RIGHT-OF-WAY
  - EXISTING IRON PIN FOUND
  - G— EXISTING GAS LINE
  - ☆— EXISTING UTILITY POLE
  - SS— EXISTING LIGHT POLE
  - EXISTING SEWER LINE
  - EXISTING SEWER MANHOLE
  - EXISTING SEWER CLEANOUT
  - W— EXISTING FIRE HYDRANT
  - W— EXISTING WATER LINE
  - X— EXISTING GATE VALVE
  - EXISTING WATER METER
  - EXISTING WATER METER
  - EXISTING CATCH BASIN
  - SD— EXISTING STORM DRAIN LINE
  - EXISTING EDGE OF PAVEMENT
  - EXISTING STREET SIGN
  - EXISTING MAILBOX
  - EXISTING FENCE

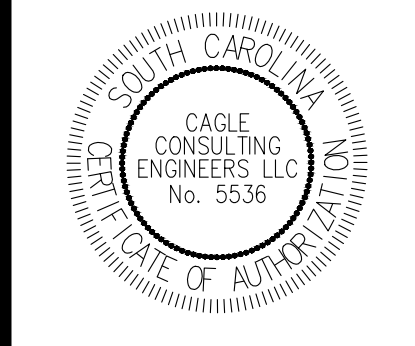
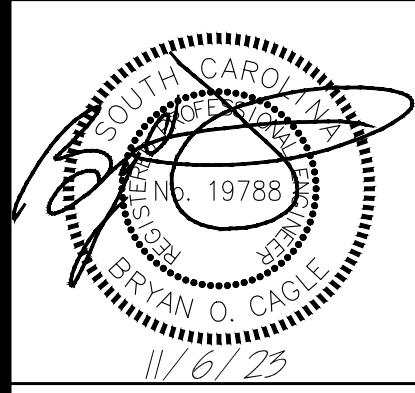
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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name:  
Project No. **1236**  
Site Address: **CITY OF GEORGETOWN, SC**

**PROPOSED SITE PLAN (BUTTS STREET)**

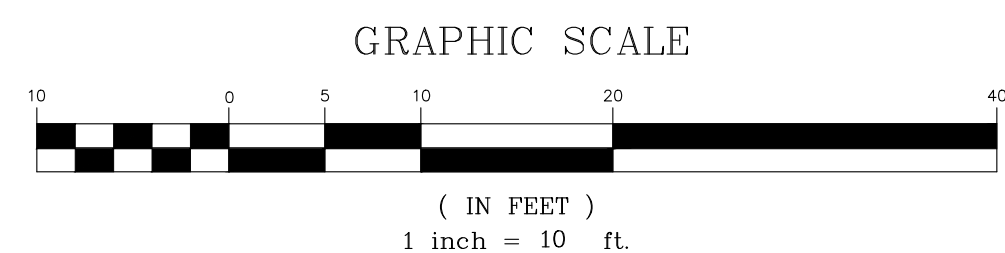
REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM    CHK'D BY: BC  
DATE: 11/6/23    REV: -  
SCALE: AS SHOWN    PROJ.#: C2305  
FILE: C2305.dwg

SHEET NUMBER:  
**C6**

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**PROPOSED SITE PLAN (BUTTS STREET)**





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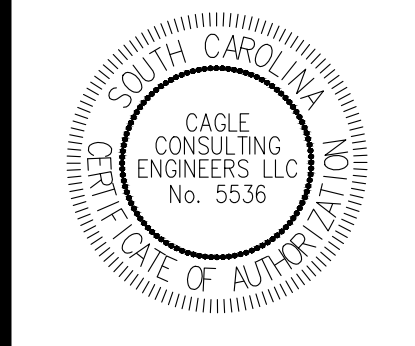
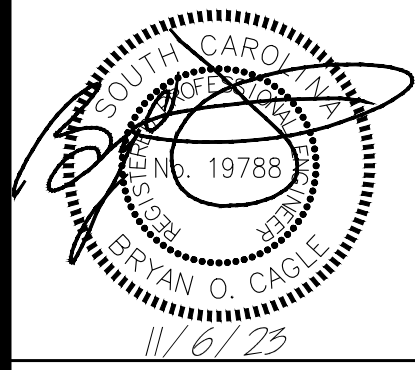
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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name:  
 Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**PROPOSED SITE PLAN (BUTTS STREET)**

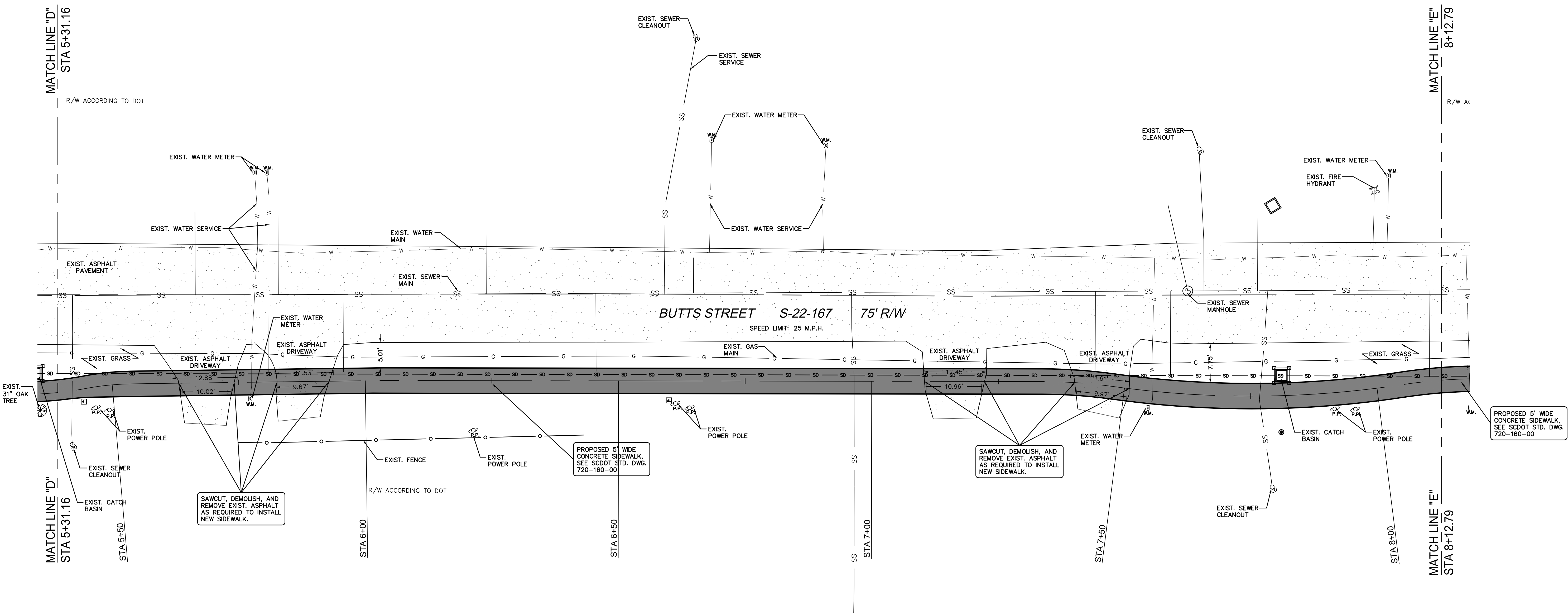
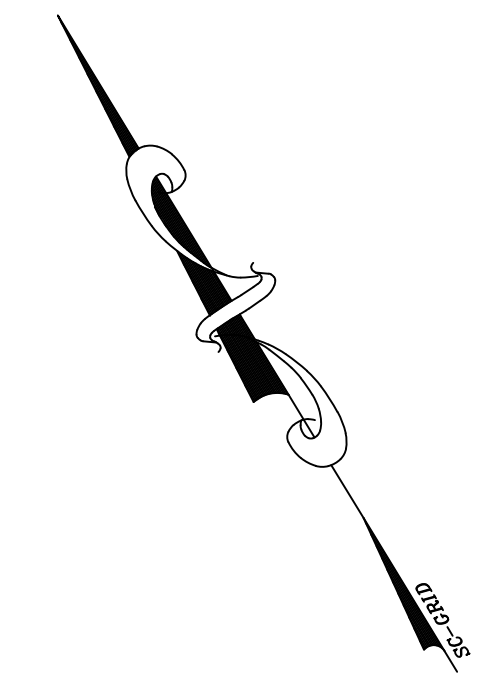
REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM    CHK'D BY: BC  
 DATE: 11/6/23    REV: -  
 SCALE: AS SHOWN    PROJ.#: C2305  
 FILE: C2305.dwg

SHEET NUMBER:  
**C7**

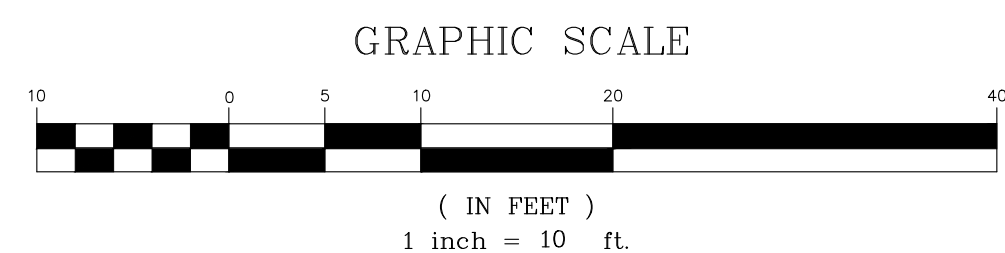
**LEGEND (EXISTING)**

	RIGHT-OF-WAY
	EXISTING IRON PIN FOUND
	EXISTING GAS LINE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SEWER LINE
	EXISTING SEWER MANHOLE
	EXISTING SEWER CLEANOUT
	EXISTING FIRE HYDRANT
	EXISTING WATER LINE
	EXISTING GATE VALVE
	EXISTING WATER METER
	EXISTING CATCH BASIN
	EXISTING STORM DRAIN LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING STREET SIGN
	EXISTING MAILBOX
	EXISTING FENCE



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**PROPOSED SITE PLAN (BUTTS STREET)**





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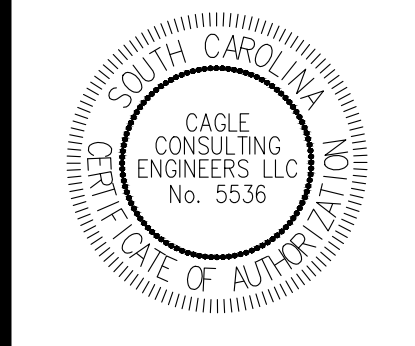
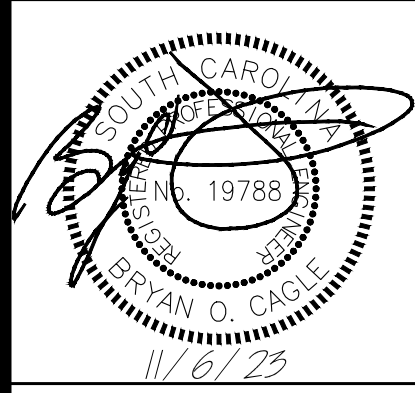
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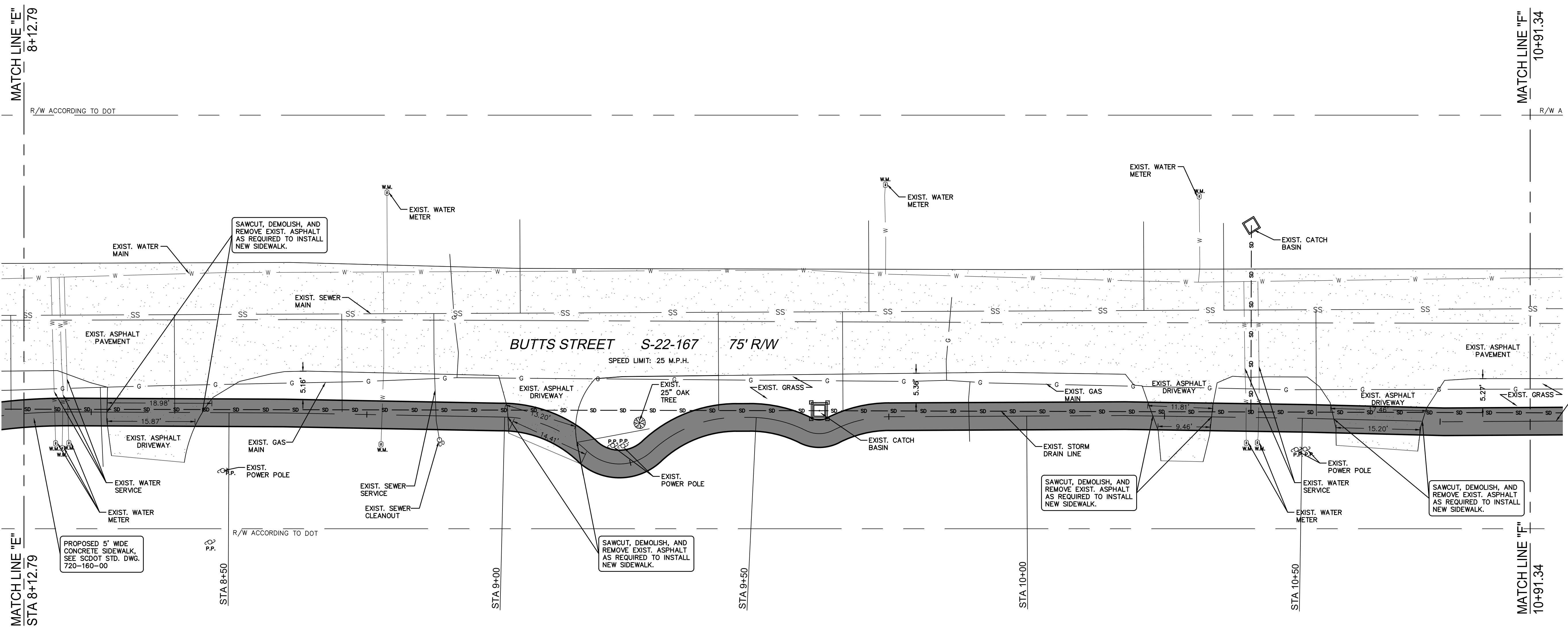


**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name:  
 Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

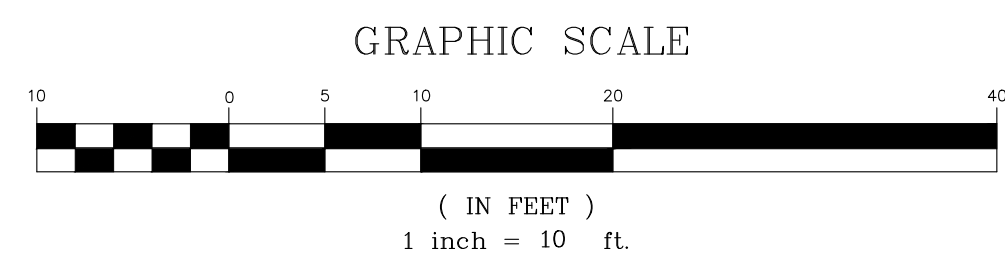
**LEGEND (EXISTING)**

—	●	RIGHT-OF-WAY
—	○	EXISTING IRON PIN FOUND
—	○	EXISTING GAS LINE
—	○	EXISTING UTILITY POLE
—	○	EXISTING LIGHT POLE
—	○	EXISTING SEWER LINE
—	○	EXISTING SEWER MANHOLE
—	○	EXISTING SEWER CLEANOUT
—	○	EXISTING FIRE HYDRANT
—	○	EXISTING WATER LINE
—	○	EXISTING GATE VALVE
—	○	EXISTING WATER METER
—	○	EXISTING CATCH BASIN
—	○	EXISTING STORM DRAIN LINE
—	○	EXISTING EDGE OF PAVEMENT
—	○	EXISTING STREET SIGN
—	○	EXISTING MAILBOX
—	○	EXISTING FENCE



I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."

**PROPOSED SITE PLAN (BUTTS STREET)**



**PROPOSED SITE PLAN (BUTTS STREET)**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM | CHK'D BY: BC  
 DATE: 11/6/23 | REV: -  
 SCALE: AS SHOWN | PROJ.#: C2305  
 FILE: C2305.dwg  
 SHEET NUMBER: **C8**





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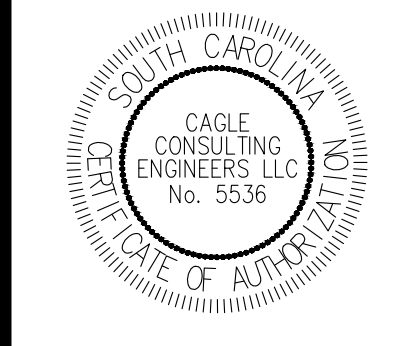
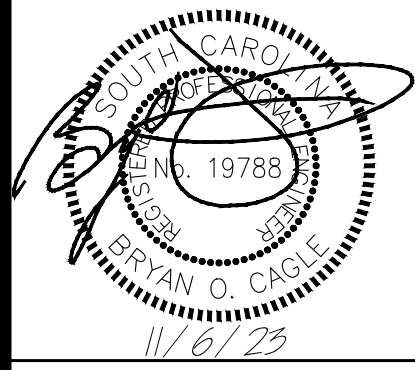
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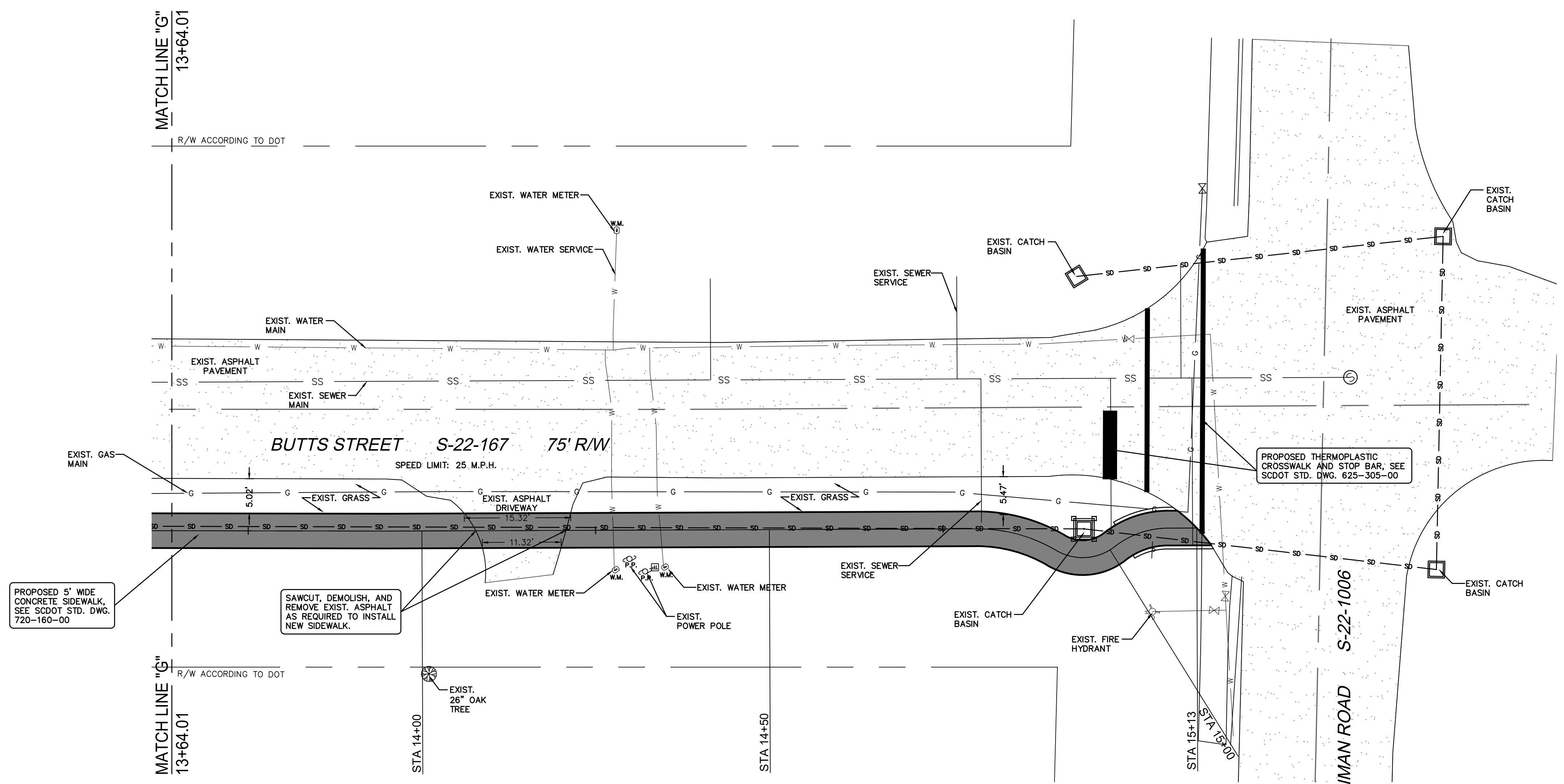
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 cagleengr@gmail.com



**LEGEND (EXISTING)**

	RIGHT-OF-WAY
	EXISTING IRON PIN FOUND
	EXISTING GAS LINE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SEWER LINE
	EXISTING SEWER MANHOLE
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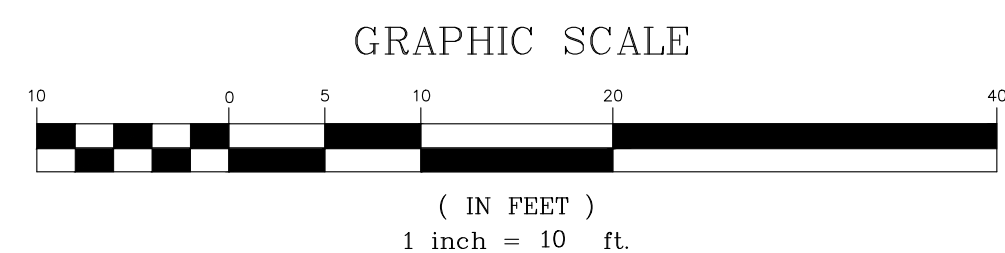
PROPOSED 5' WIDE CONCRETE SIDEWALK, SEE SCDOT STD. DWG. 720-160-00

SAWCUT, DEMOLISH, AND REMOVE EXIST. ASPHALT AS REQUIRED TO INSTALL NEW SIDEWALK.

PROPOSED THERMOPLASTIC CROSSWALK AND STOP BAR, SEE SCDOT STD. DWG. 625-305-00

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**PROPOSED SITE PLAN (BUTTS STREET)**



Project Name: **GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
 Project No: **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**PROPOSED SITE PLAN (BUTTS STREET)**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

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 SCALE: AS SHOWN | PROJ.#: C2305  
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SHEET NUMBER:  
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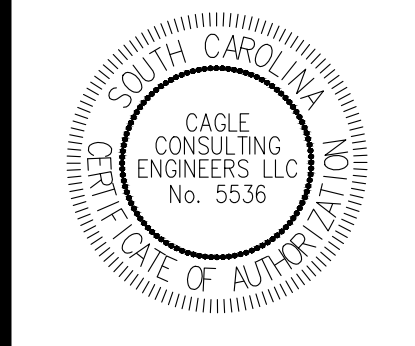
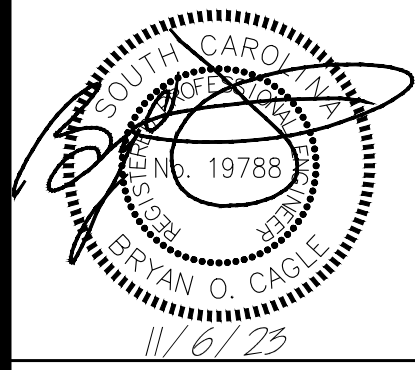
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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name:  
 Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

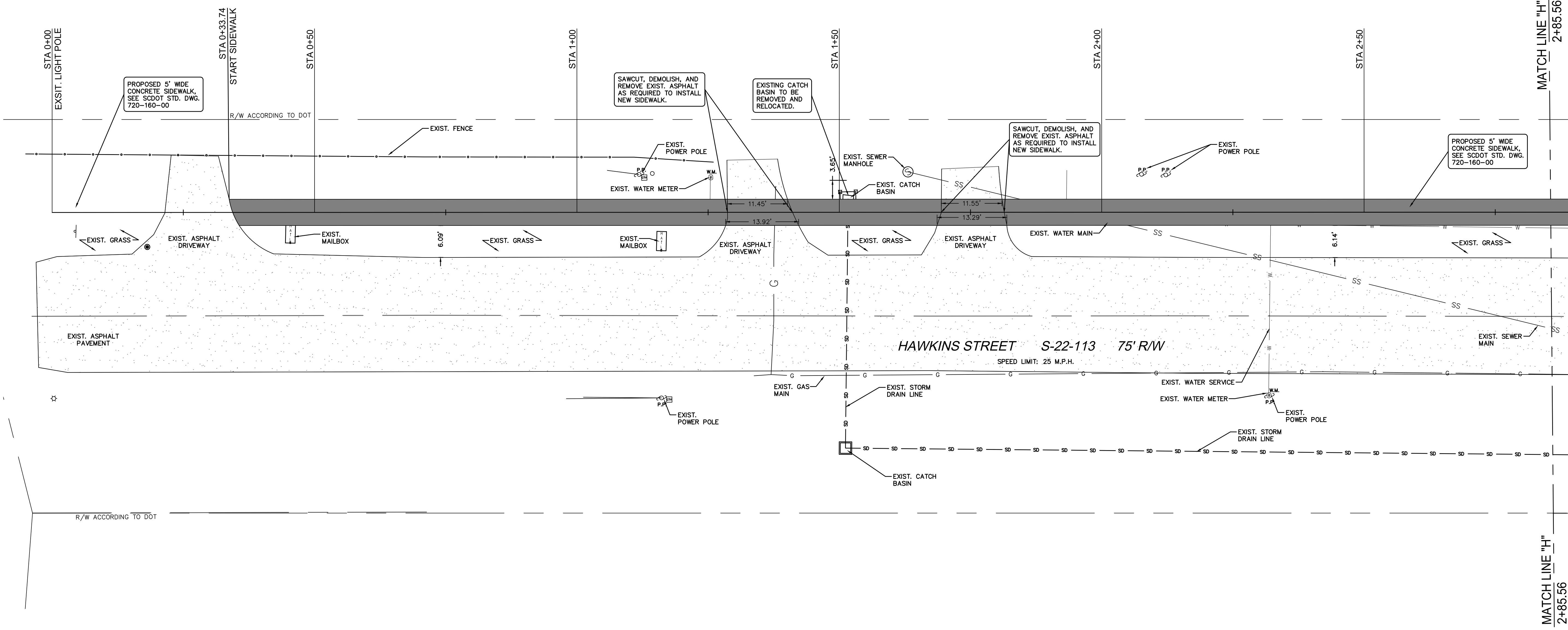
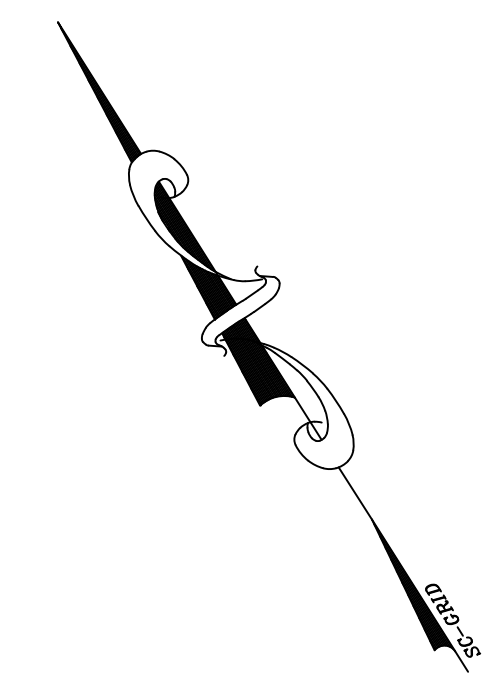
**PROPOSED SITE PLAN (HAWKINS STREET)**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

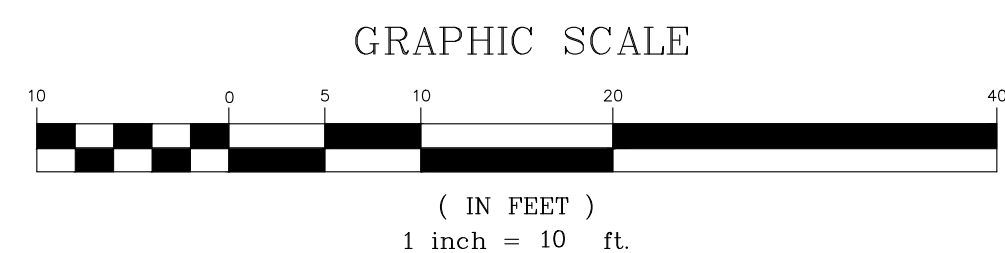
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 DATE: 11/6/23    REV: -  
 SCALE: AS SHOWN    PROJ.#: C2305  
 FILE: C2305.dwg

SHEET NUMBER:  
**C11**

- LEGEND (EXISTING)**
- RIGHT-OF-WAY
  - EXISTING IRON PIN FOUND
  - EXISTING GAS LINE
  - EXISTING UTILITY POLE
  - EXISTING LIGHT POLE
  - EXISTING SEWER LINE
  - EXISTING SEWER MANHOLE
  - EXISTING SEWER CLEANOUT
  - EXISTING FIRE HYDRANT
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  - EXISTING CATCH BASIN
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  - EXISTING STREET SIGN
  - EXISTING MAILBOX
  - EXISTING FENCE

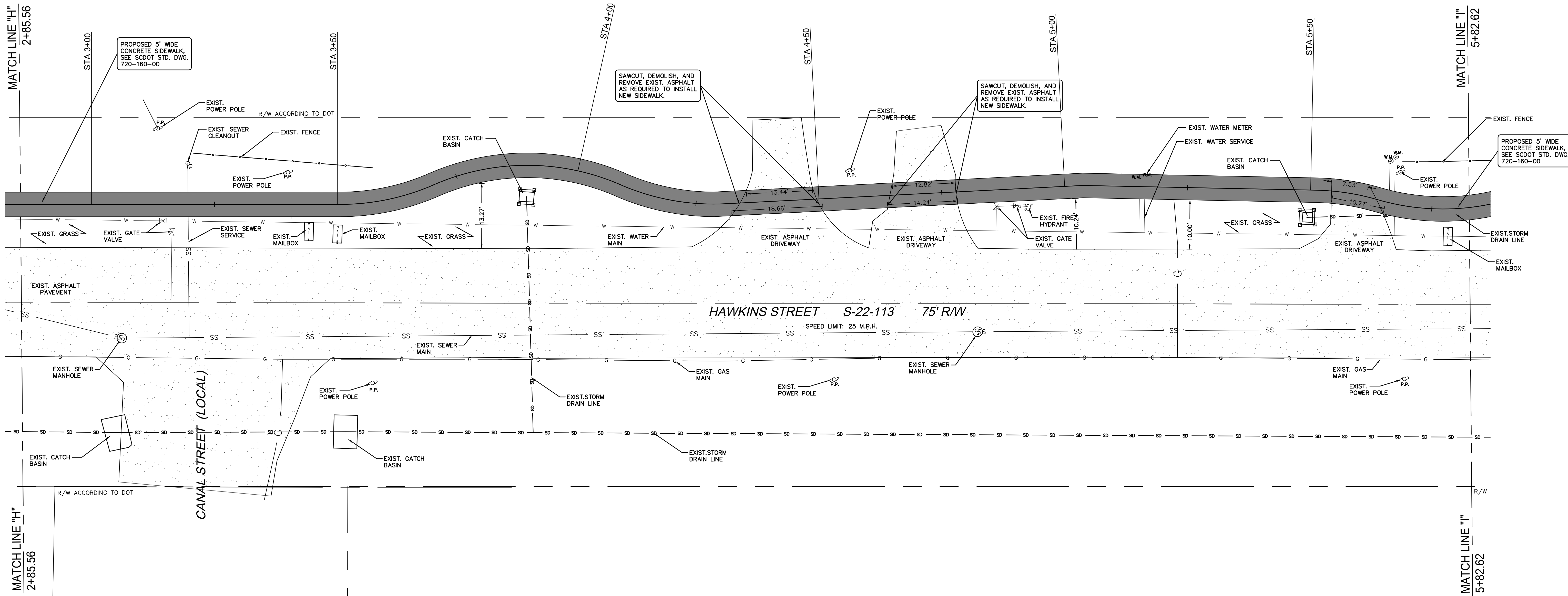


**PROPOSED SITE PLAN (HAWKINS STREET)**



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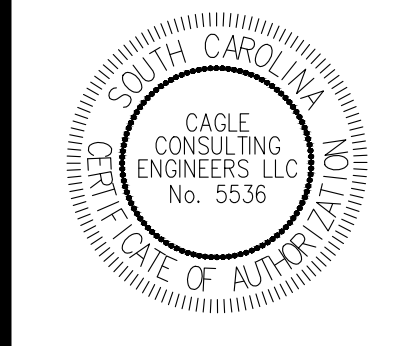
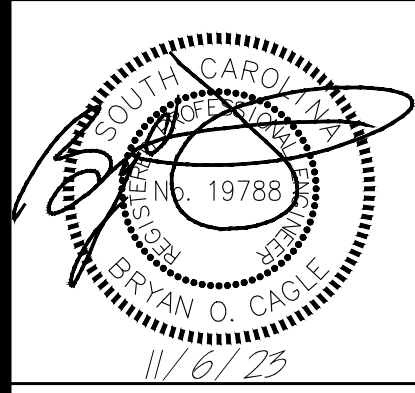
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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name: **GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
 Project No: **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**PROPOSED SITE PLAN (HAWKINS STREET)**

REV	DESCRIPTION	BY
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B	ISSUE FOR BIDS	BC

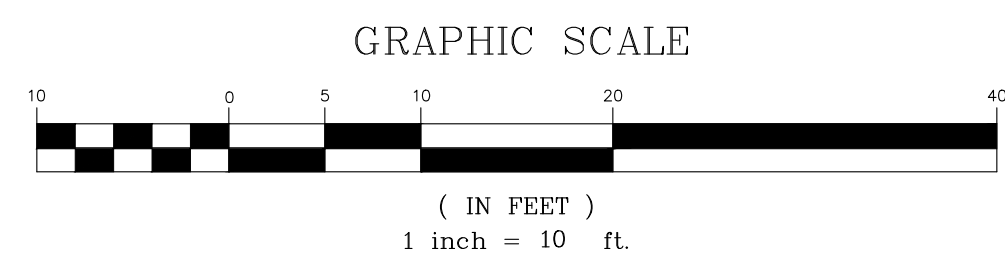
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 DATE: 11/6/23    REV: -  
 SCALE: AS SHOWN    PROJ.#: C2305  
 FILE: C2305.dwg

SHEET NUMBER:

**C12**

I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

**PROPOSED SITE PLAN (HAWKINS STREET)**





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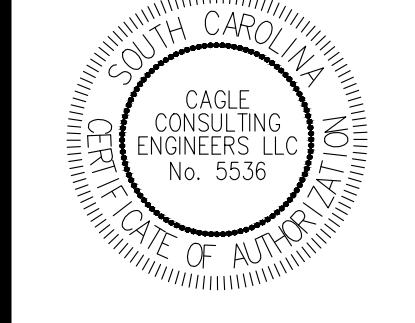
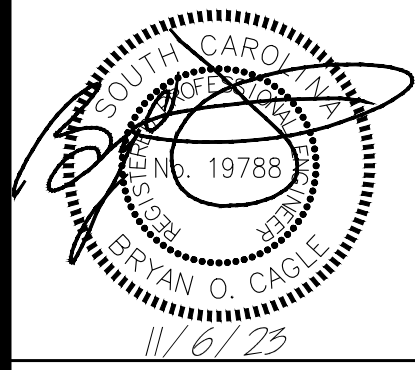
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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name:  
 Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

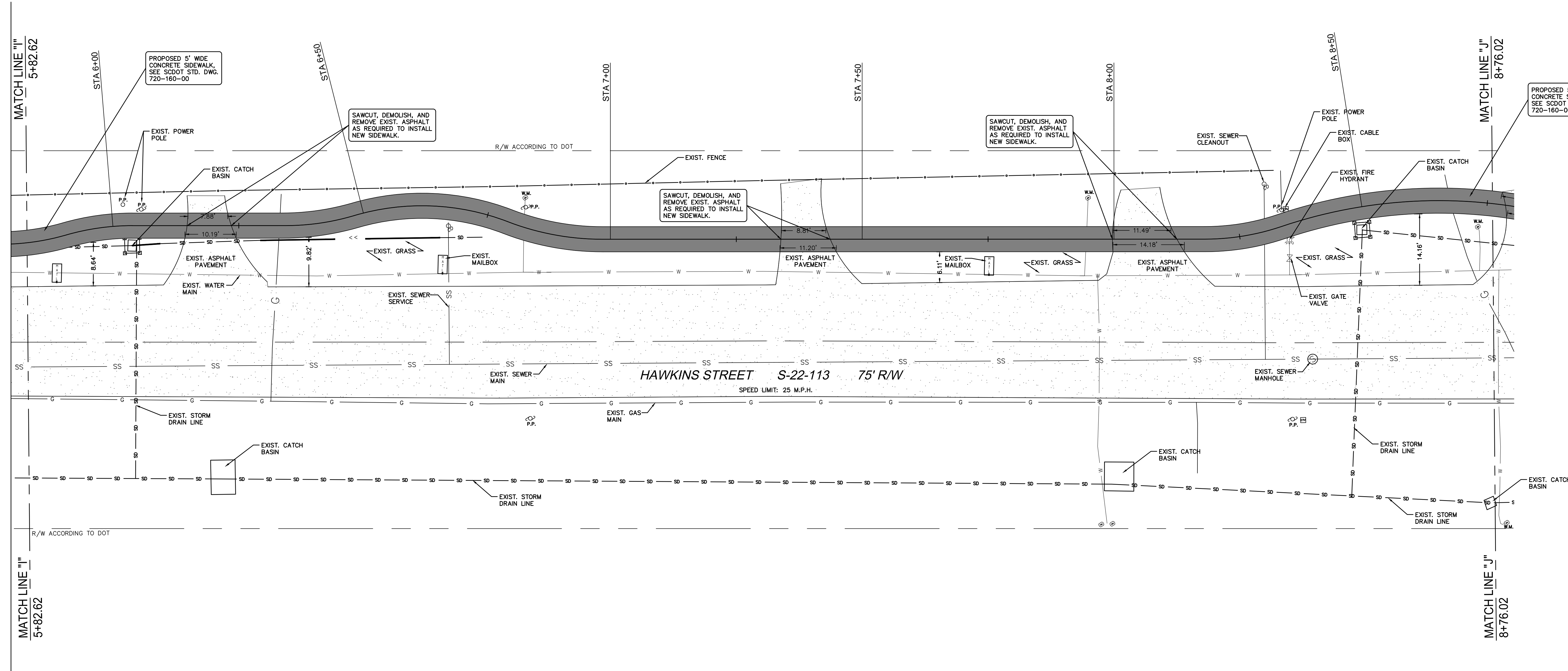
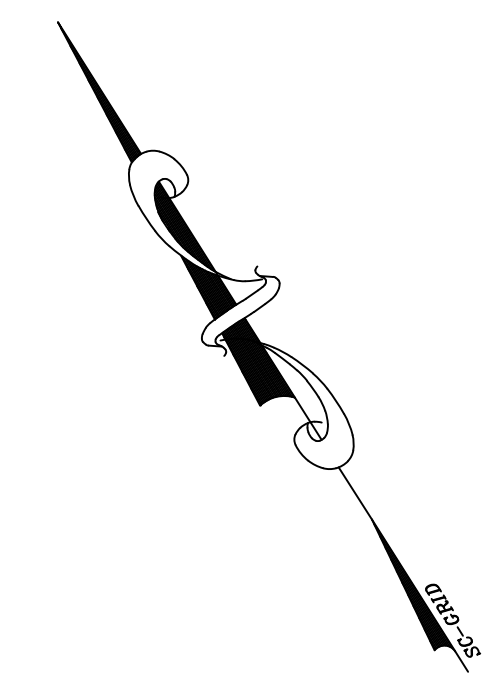
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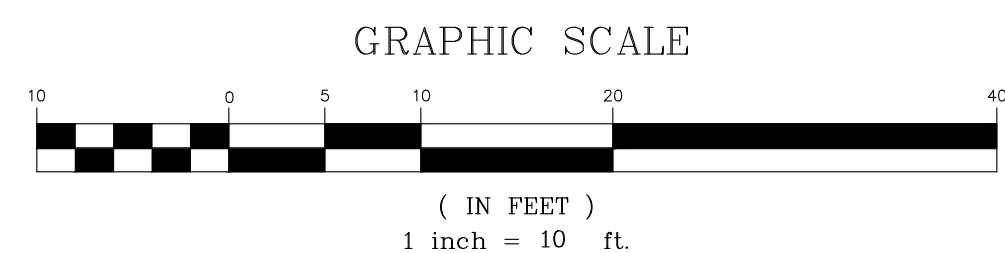
SHEET NUMBER:  
**C13**

- LEGEND (EXISTING)**
- RIGHT-OF-WAY
  - EXISTING IRON PIN FOUND
  - G— EXISTING GAS LINE
  - EXISTING UTILITY POLE
  - SS— EXISTING LIGHT POLE
  - EXISTING SEWER LINE
  - EXISTING SEWER MANHOLE
  - EXISTING SEWER CLEANOUT
  - EXISTING FIRE HYDRANT
  - W— EXISTING WATER LINE
  - EXISTING GATE VALVE
  - EXISTING WATER METER
  - EXISTING CATCH BASIN
  - SD— EXISTING STORM DRAIN LINE
  - EXISTING EDGE OF PAVEMENT
  - EXISTING STREET SIGN
  - EXISTING MAILBOX
  - EXISTING FENCE

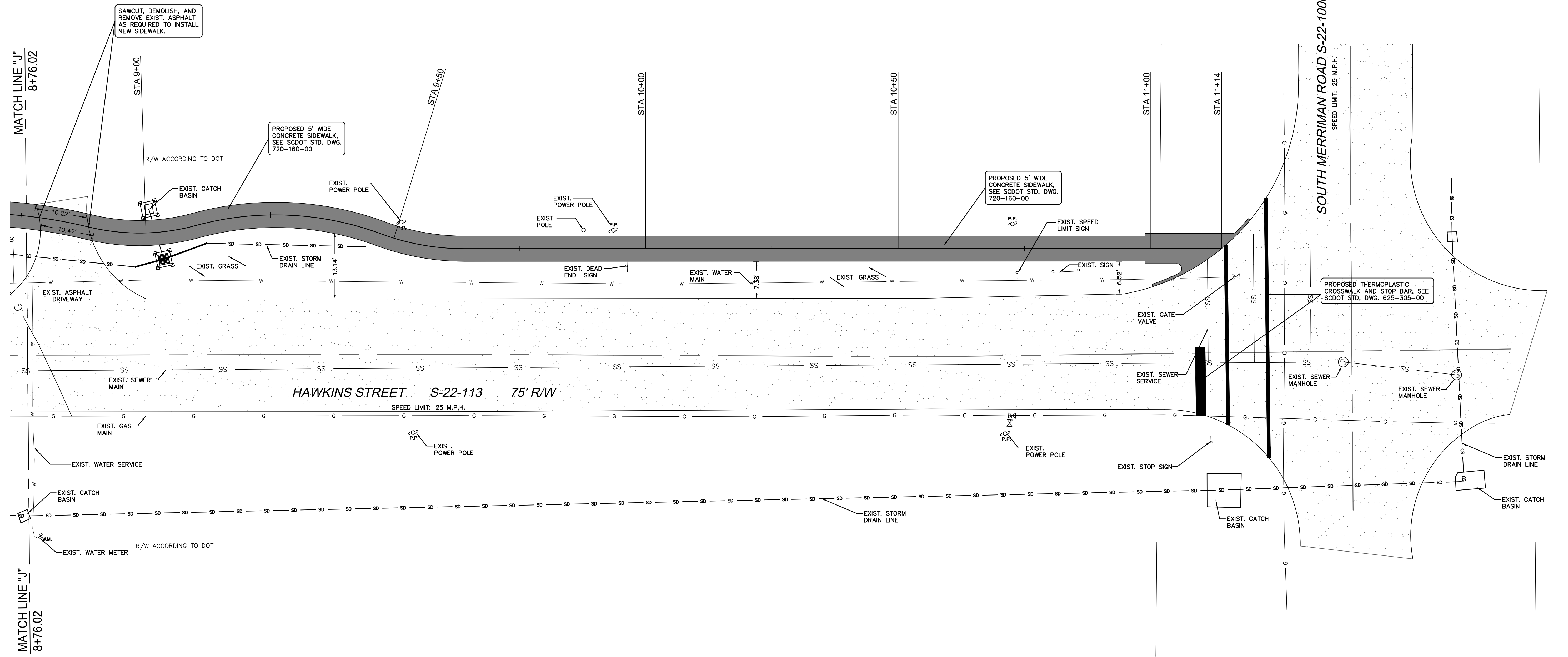


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**PROPOSED SITE PLAN (HAWKINS STREET)**



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- LEGEND**  
(EXISTING)
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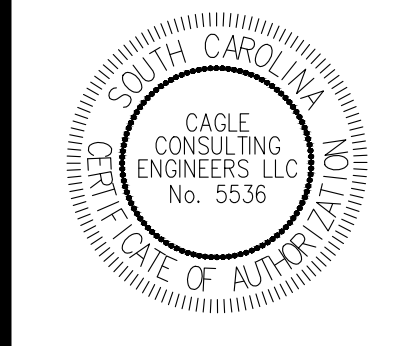
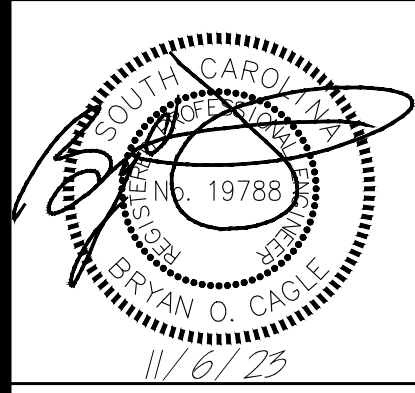
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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name:  
Project No. **1236**  
Site Address: **CITY OF GEORGETOWN, SC**

**PROPOSED SITE PLAN (HAWKINS STREET)**

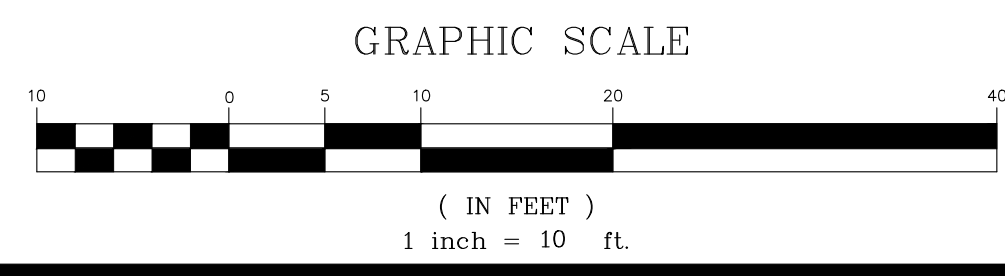
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DRAWN BY: LAM    CHK'D BY: BC  
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SHEET NUMBER:

**C14**

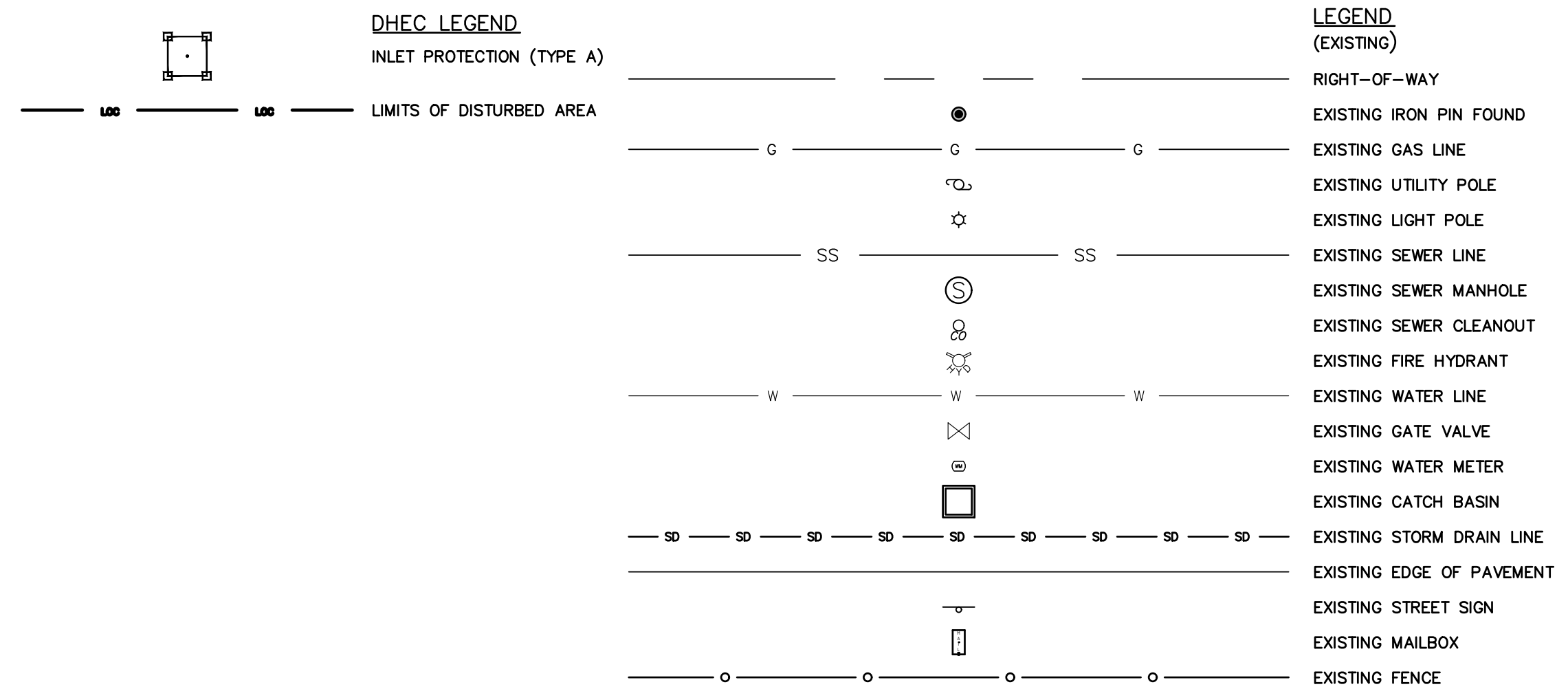
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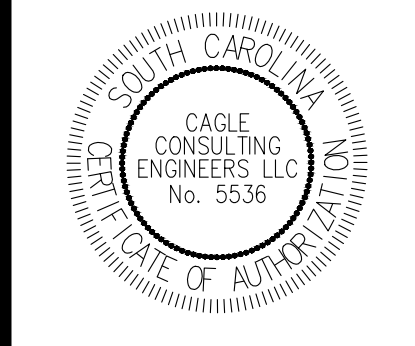
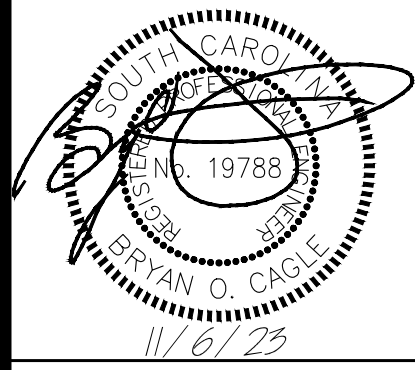
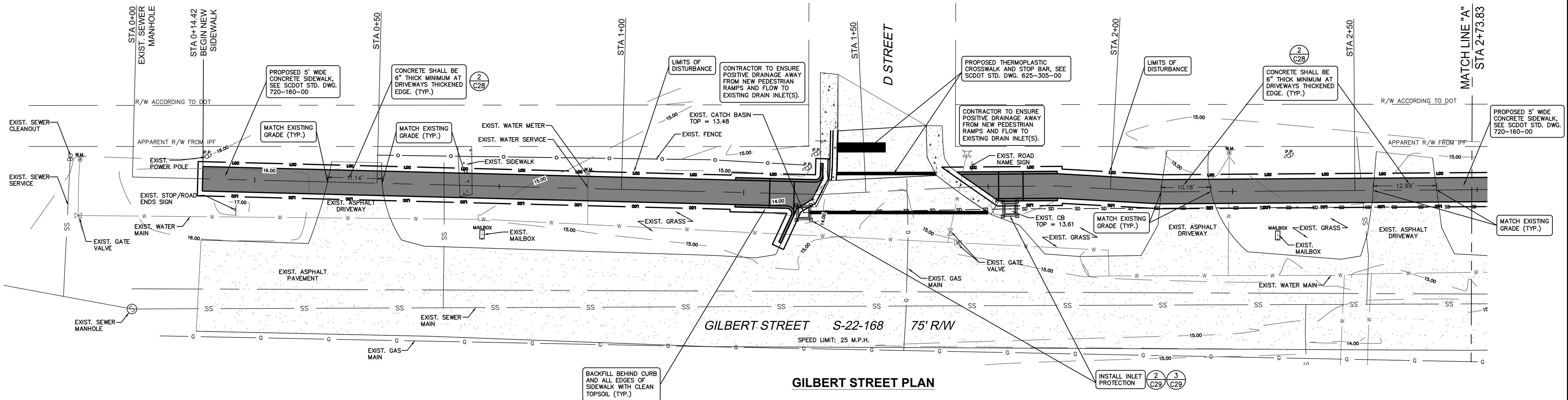
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CONTRACTOR TO REFER SHEETS G1 AND G2 FOR ADDITIONAL CONSTRUCTION NOTES AND REQUIREMENTS.



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

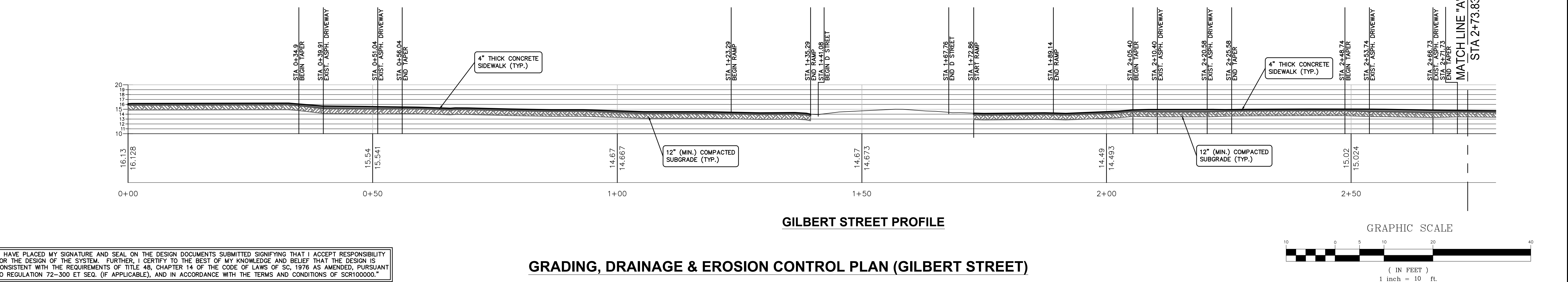
**CITY OF GEORGETOWN, SC**

Project Name: **GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
 Project No: **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**GRADING, DRAINAGE, & EROSION CONTROL PLAN (GILBERT STREET)**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM CHK'D BY: BC  
 DATE: 11/6/23 REV: -  
 SCALE: AS SHOWN PROJ.#: C2305  
 FILE: C2305.dwg  
 SHEET NUMBER: **C15**

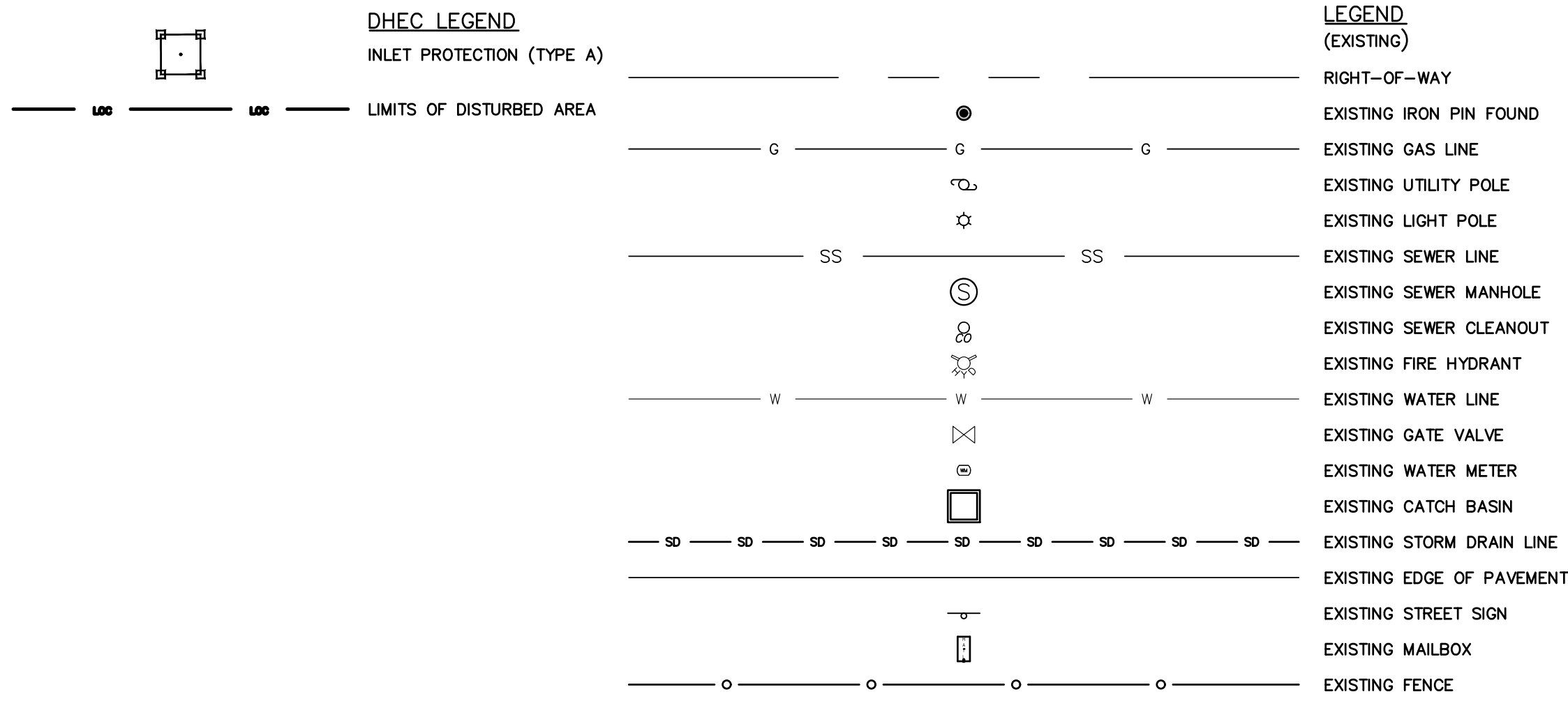


I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

**GRADING, DRAINAGE & EROSION CONTROL PLAN (GILBERT STREET)**



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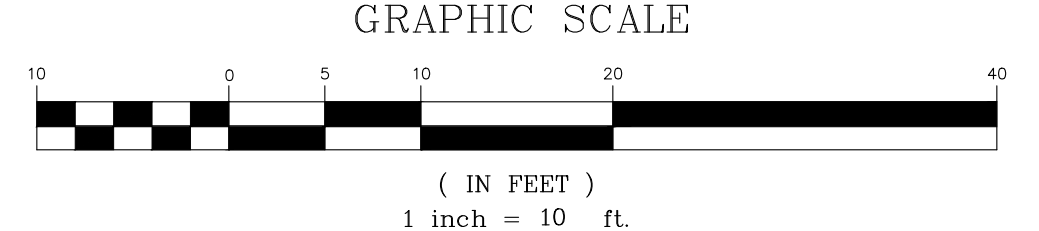
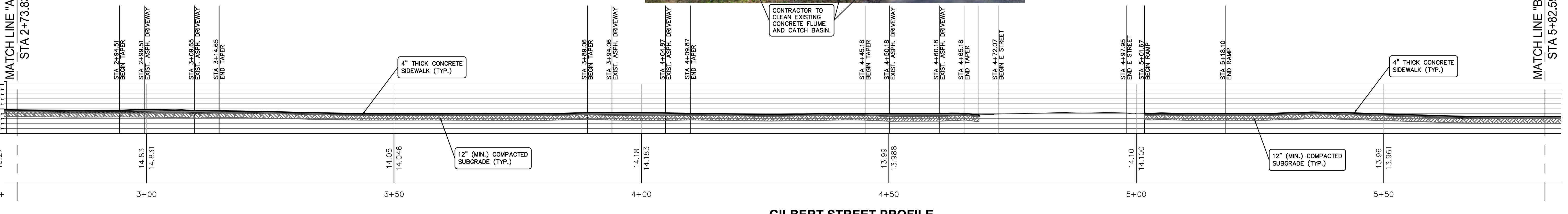
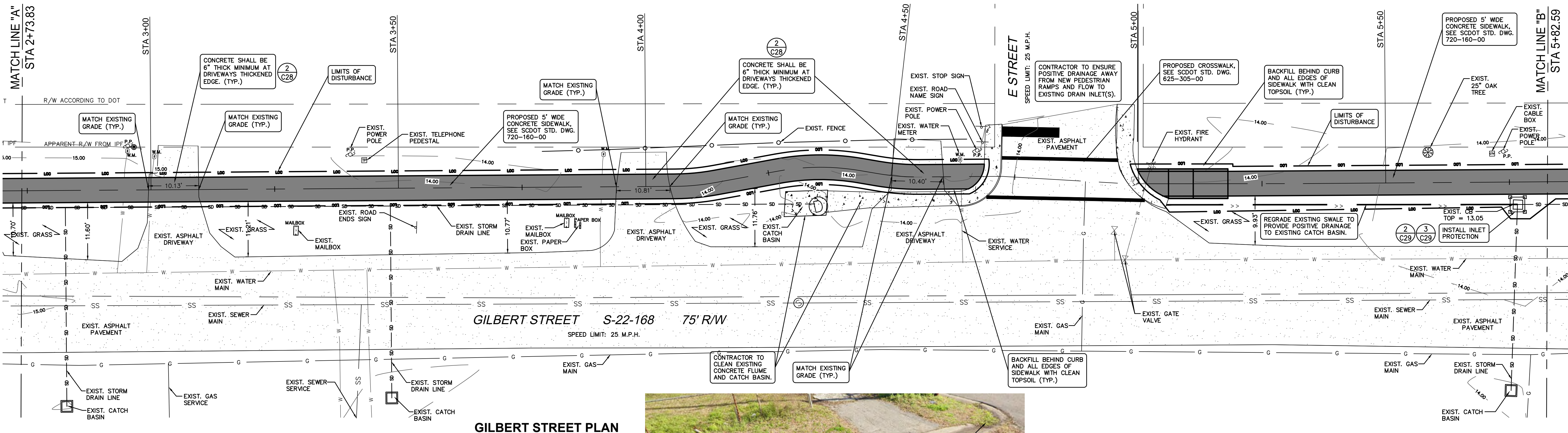
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**CAGLE CONSULTING ENGINEERS LLC**  
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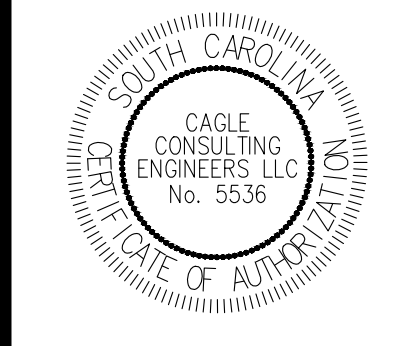
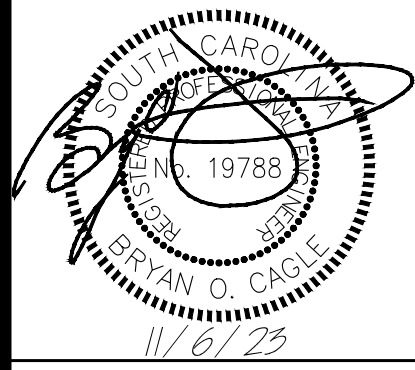
Post Office Box 3706, Florence, South Carolina 29502  
 Ph: (843) 495-7452  
 cagleengr@gmail.com

CONTRACTOR TO REFER SHEETS G1 AND G2 FOR ADDITIONAL CONSTRUCTION NOTES AND REQUIREMENTS.



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**GRADING, DRAINAGE & EROSION CONTROL PLAN (GILBERT STREET)**



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
**CITY OF GEORGETOWN, SC**

Project Name:  
 Project No. **1236**  
 Site Address:

**GRADING, DRAINAGE & EROSION CONTROL PLAN (GILBERT STREET)**

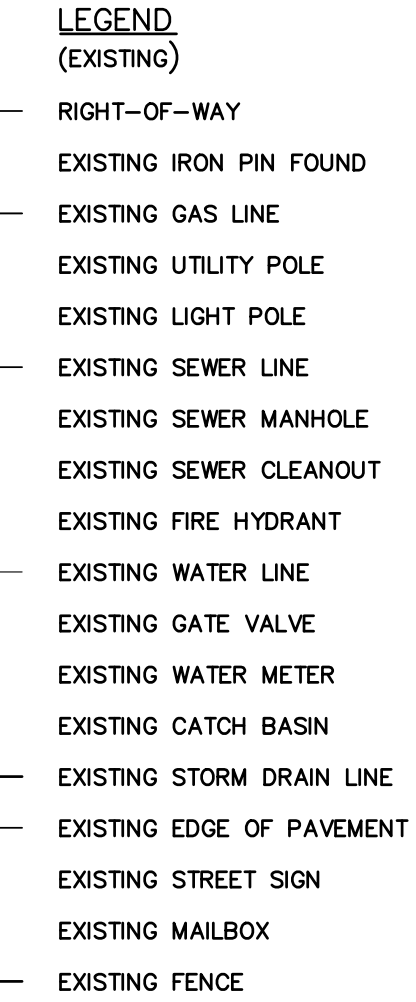
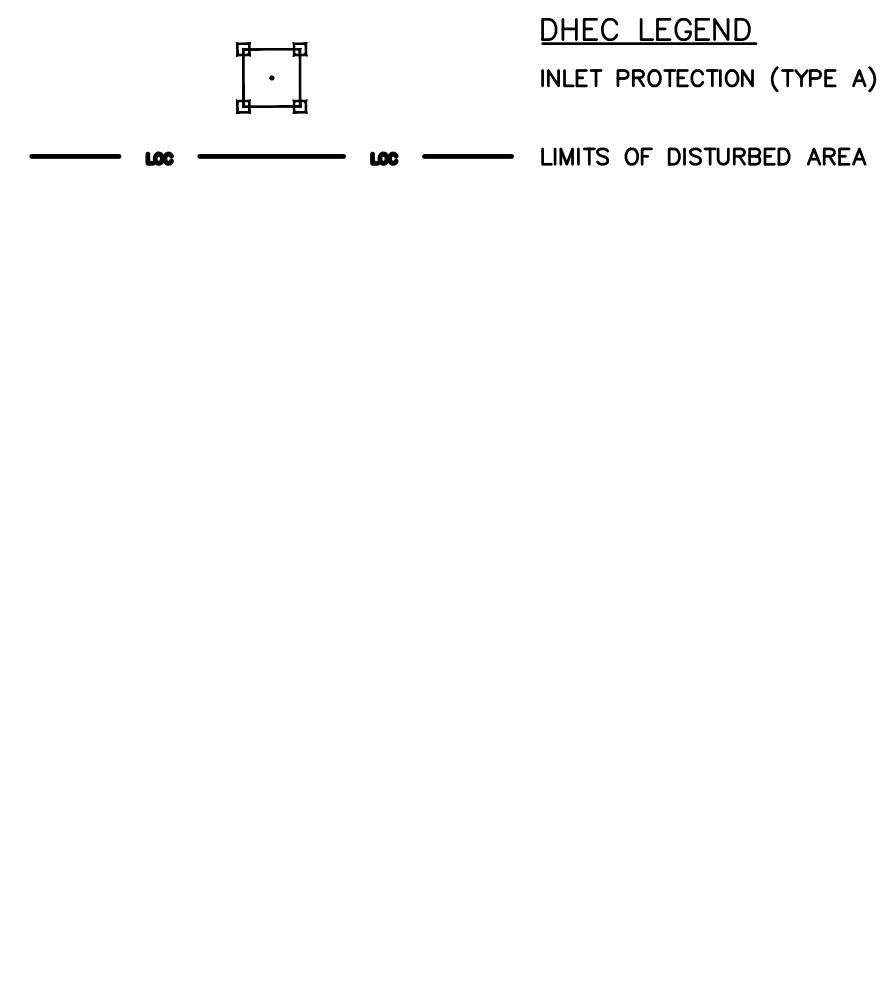
REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM CHK'D BY: BC  
 DATE: 11/6/23 REV: -  
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 FILE: C2305.dwg

SHEET NUMBER:  
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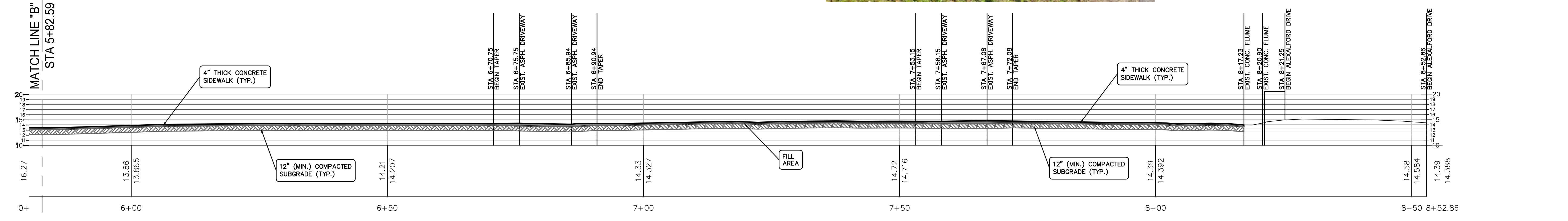
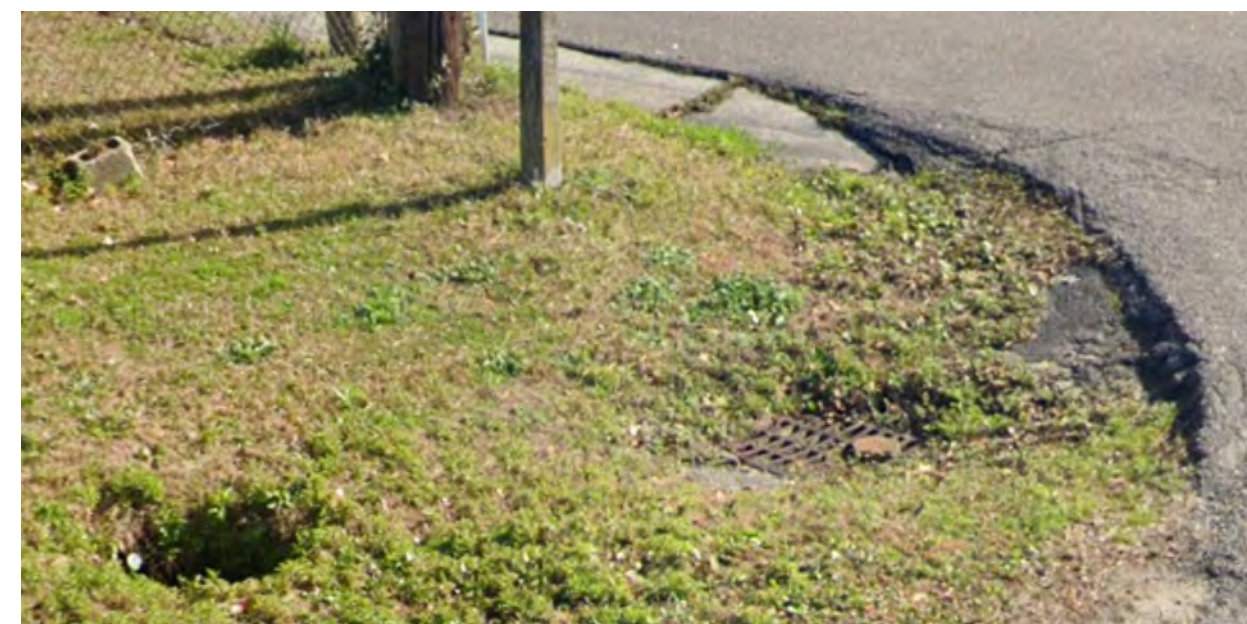
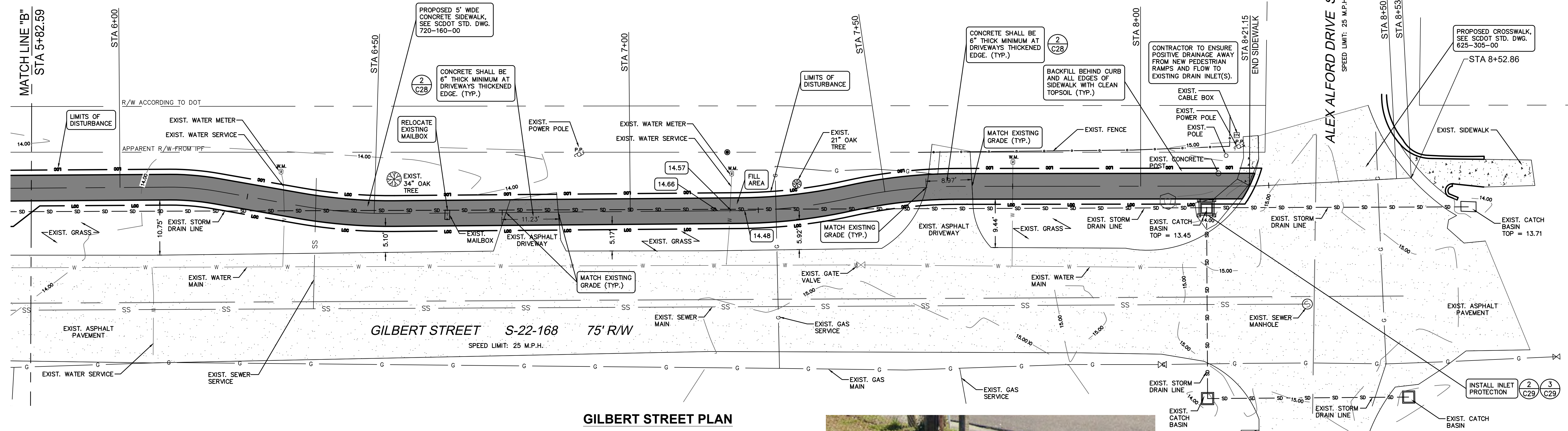
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**CAGLE CONSULTING ENGINEERS LLC**  
PLANNING & DESIGN

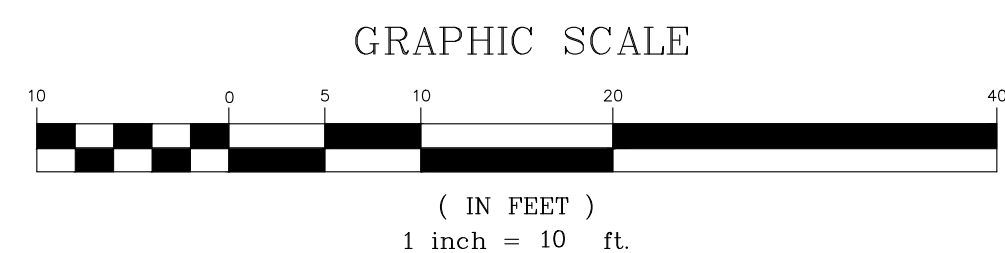
Post Office Box 3706, Florence, South Carolina 29502  
Ph: (843) 495-7452  
cagleengr@gmail.com

CONTRACTOR TO REFER SHEETS G1 AND G2 FOR ADDITIONAL CONSTRUCTION NOTES AND REQUIREMENTS.



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**GRADING, DRAINAGE & EROSION CONTROL PLAN (GILBERT STREET)**



Professional Engineer Seal for **THOMAS O. CAGLE**, License No. 19788, State of South Carolina.

**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name: **GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
Project No: **1236**  
Site Address: **CITY OF GEORGETOWN, SC**

**GRADING, DRAINAGE & EROSION CONTROL PLAN (GILBERT STREET)**

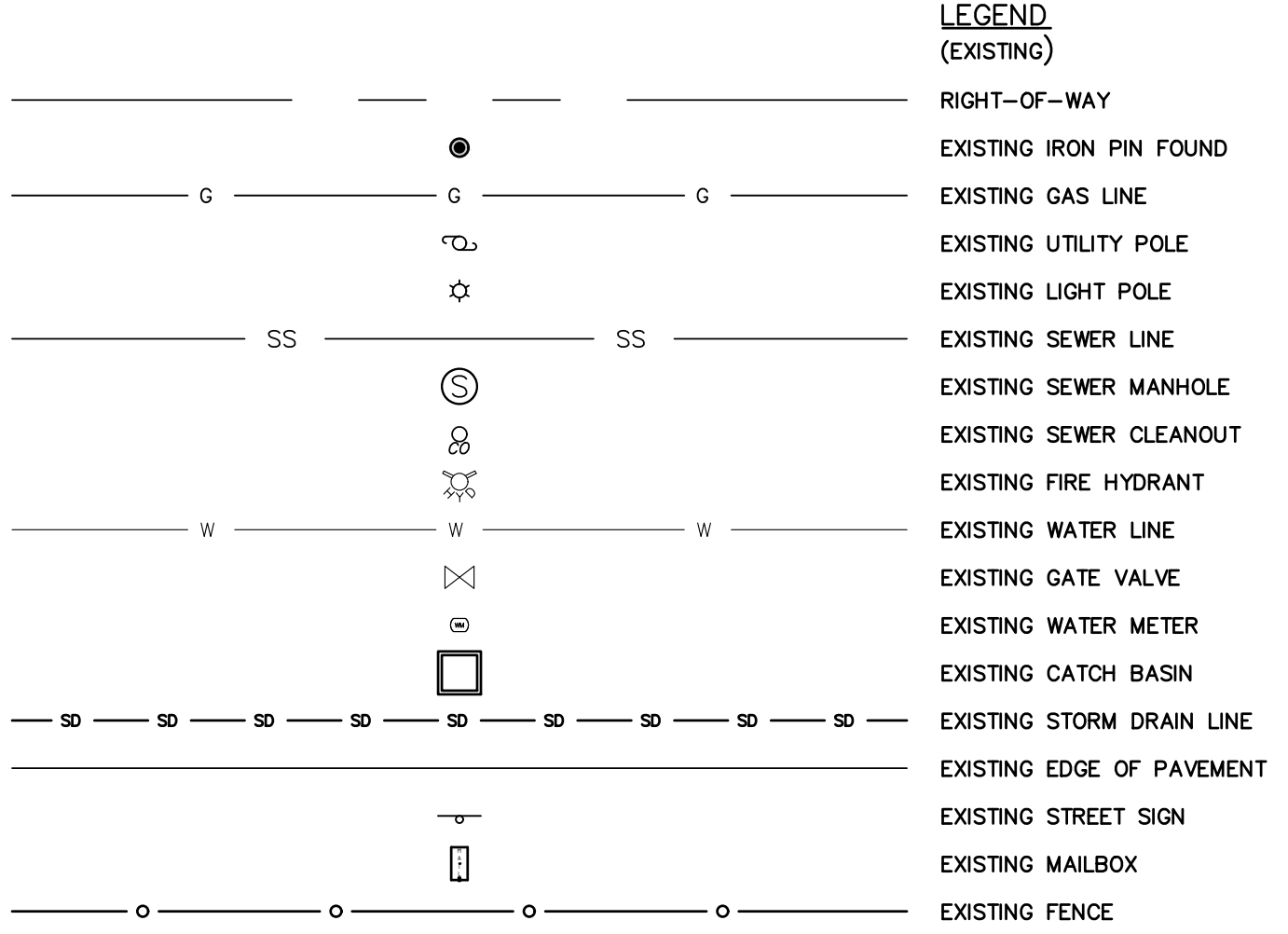
REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM CHK'D BY: BC  
DATE: 11/6/23 REV: -  
SCALE: AS SHOWN PROJ.#: C2305  
FILE: C2305.dwg

SHEET NUMBER: **C17**



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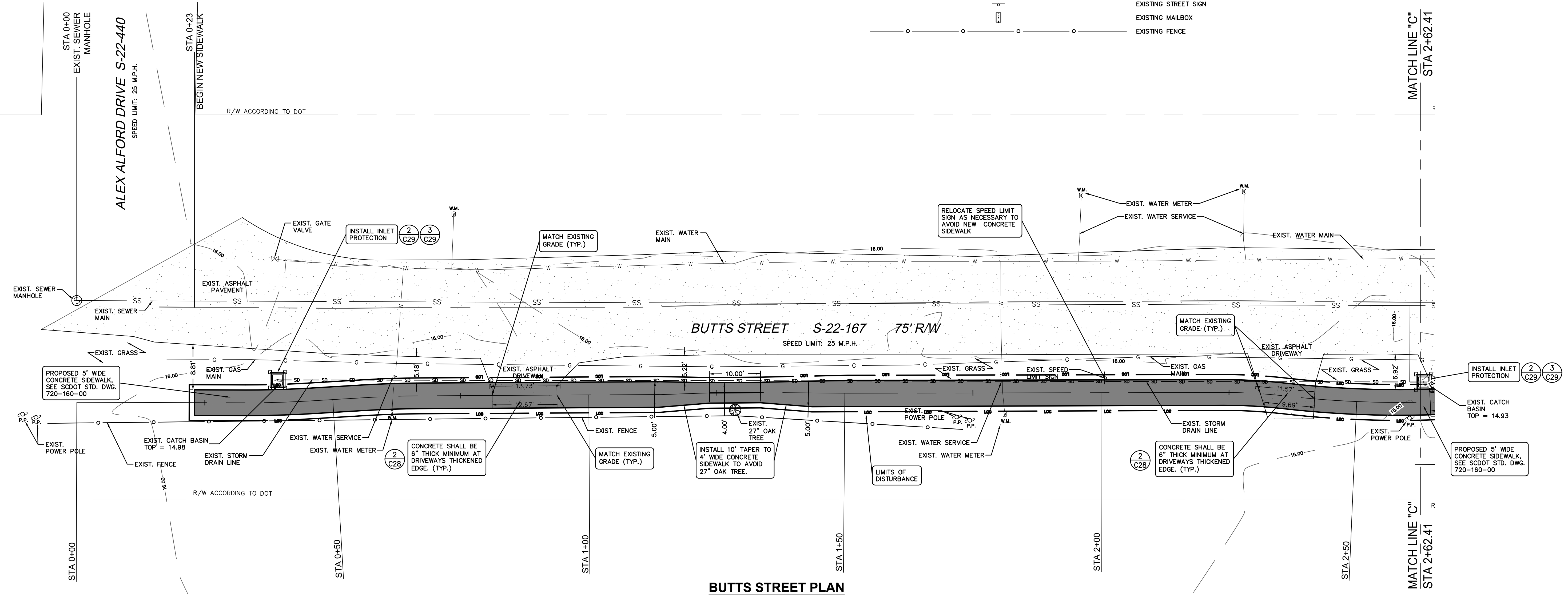
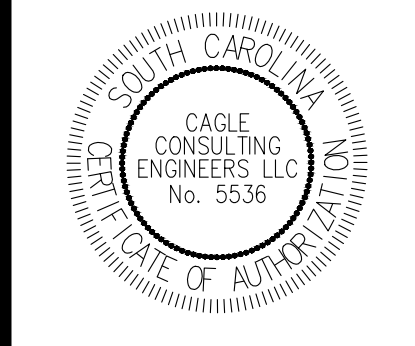
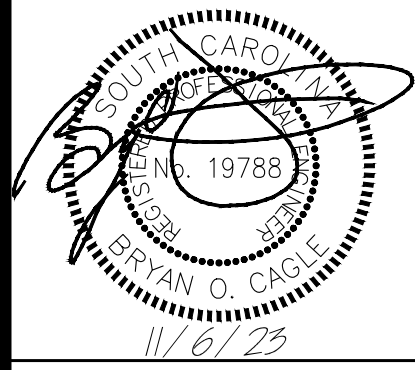
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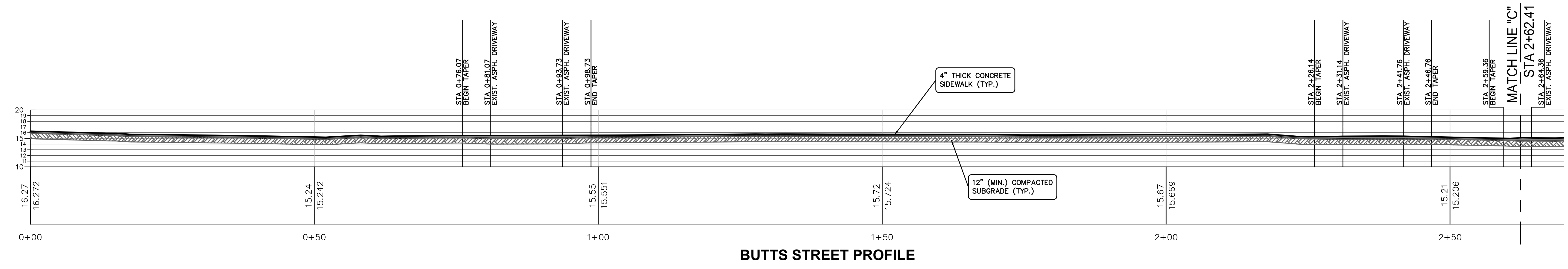
CONTRACTOR TO REFER SHEETS G1 AND G2 FOR ADDITIONAL CONSTRUCTION NOTES AND REQUIREMENTS.

**CAGLE CONSULTING ENGINEERS LLC**  
 PLANNING & DESIGN

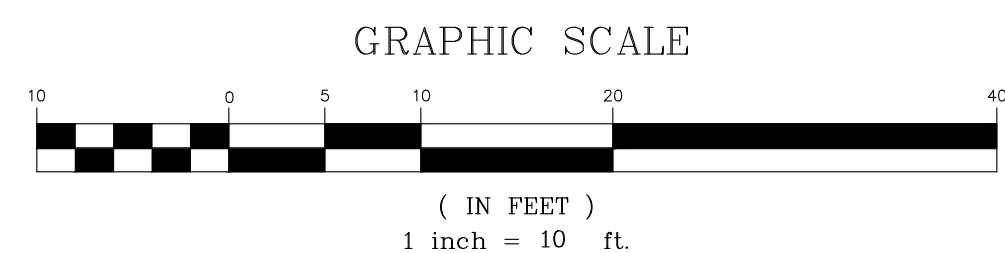
Post Office Box 3706, Florence, South Carolina 29502  
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 cagleengr@gmail.com



**BUTTS STREET PLAN**



**BUTTS STREET PROFILE**



I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000.

**GRADING, DRAINAGE & EROSION CONTROL PLAN (BUTTS STREET)**

**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
 CITY OF GEORGETOWN, SC

Project Name: **1236**  
 Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**GRADING, DRAINAGE & EROSION CONTROL PLAN (BUTTS STREET)**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM CHK'D BY: BC  
 DATE: 11/6/23 REV: -  
 SCALE: AS SHOWN PROJ.#: C2305  
 FILE: C2305.dwg

SHEET NUMBER:  
**C18**







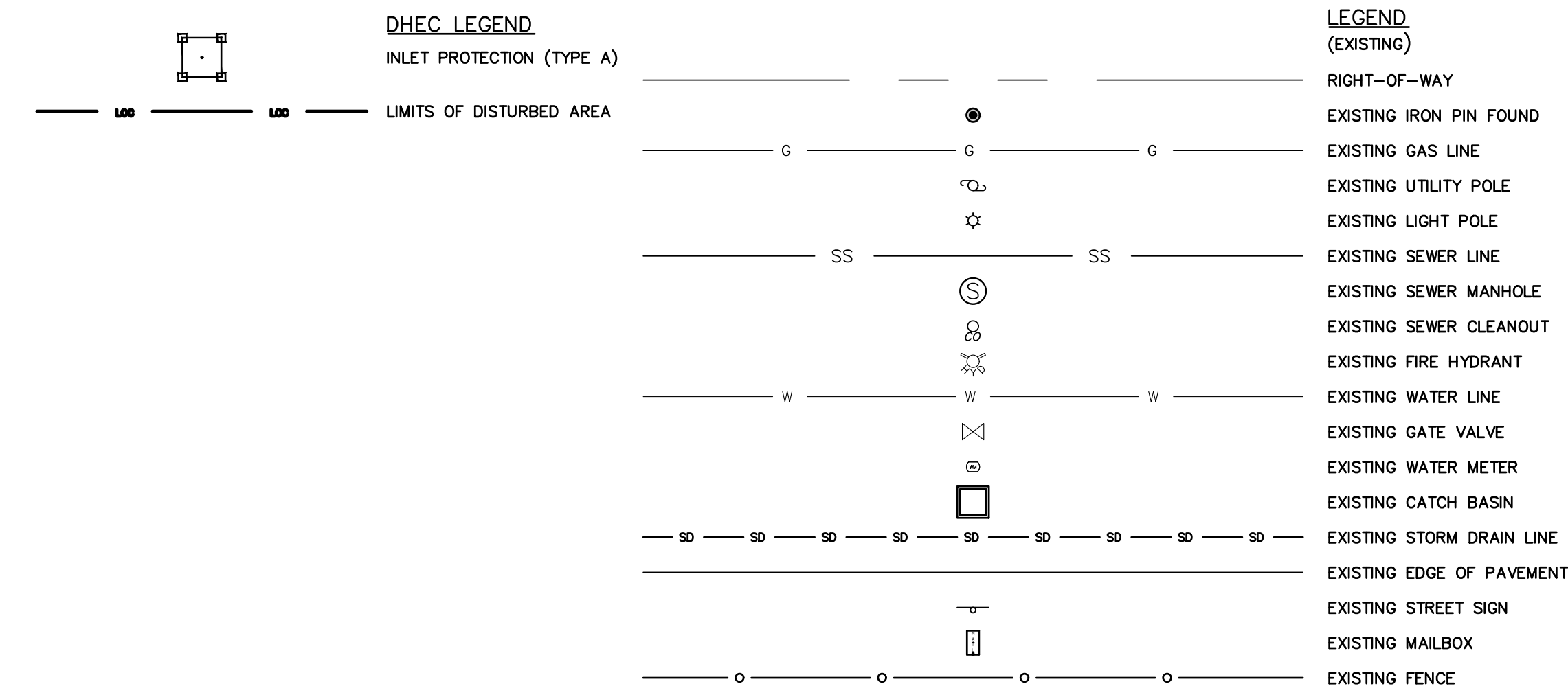








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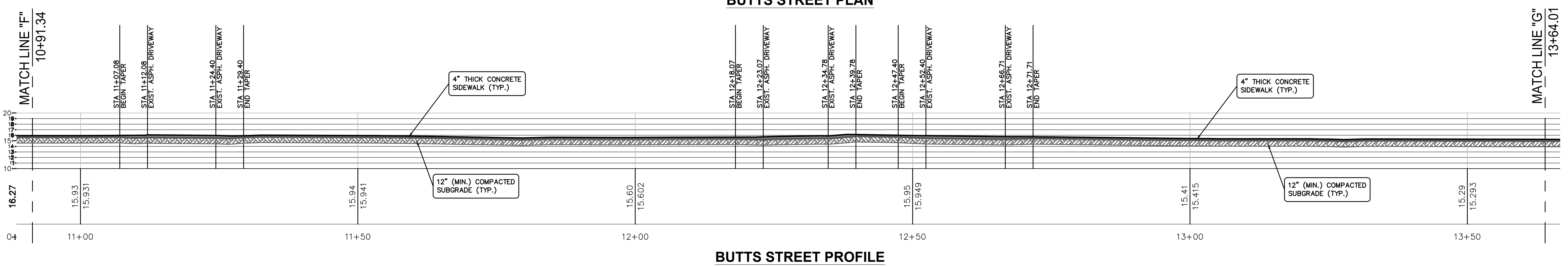
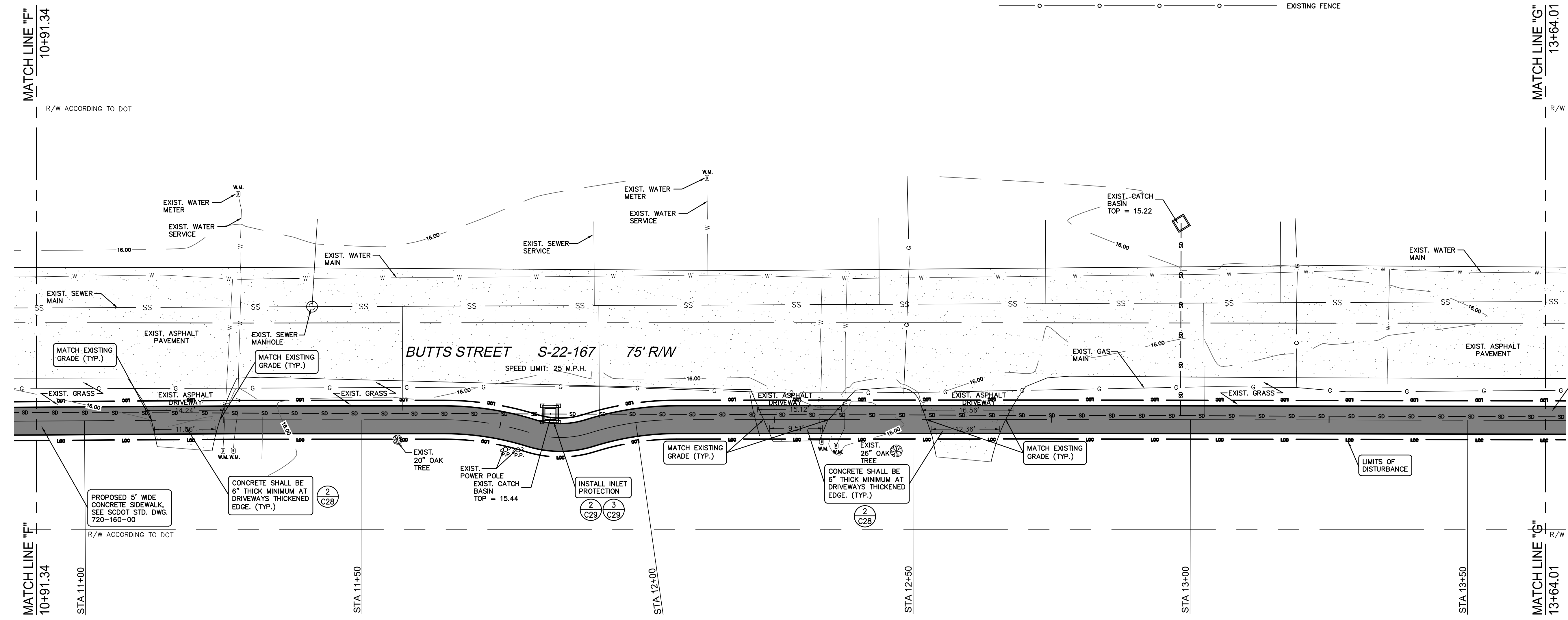
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**CAGLE CONSULTING ENGINEERS LLC**  
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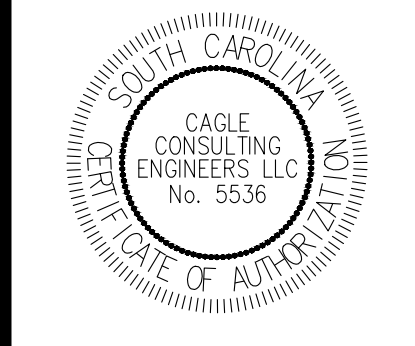
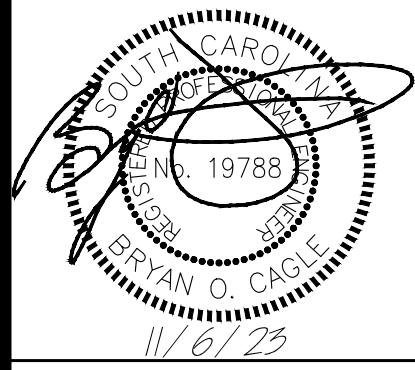
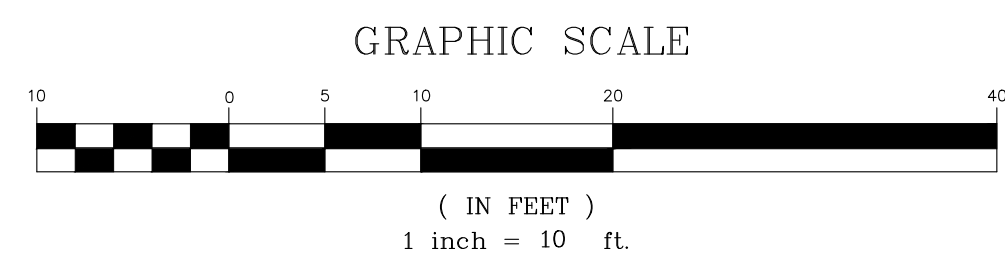
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**GRADING, DRAINAGE & EROSION CONTROL PLAN (BUTTS STREET)**



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
 CITY OF GEORGETOWN, SC

Project Name:  
 Project No. **1236**  
 Site Address:

**GRADING, DRAINAGE & EROSION CONTROL PLAN (BUTTS STREET)**

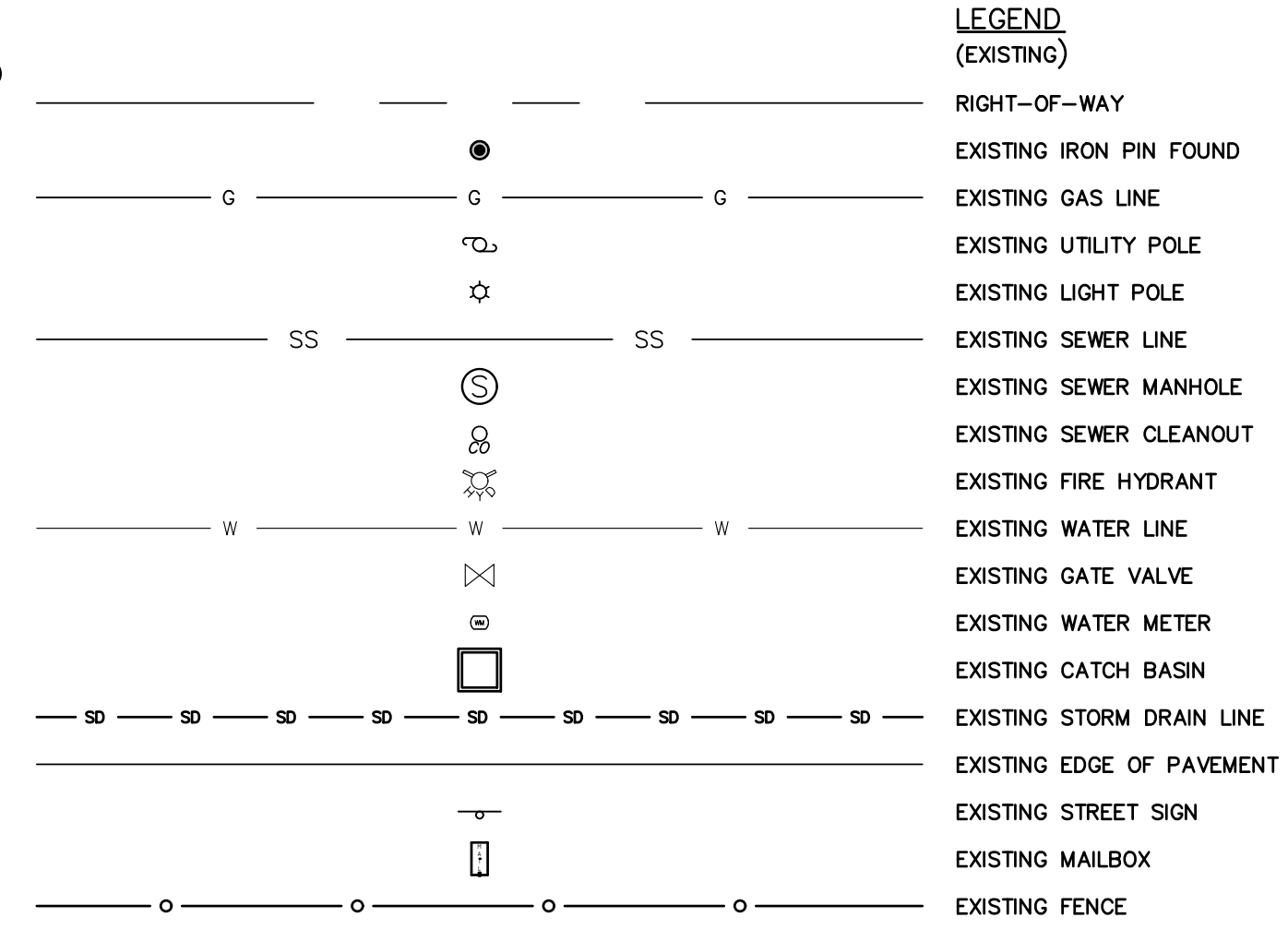
REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM CHK'D BY: BC  
 DATE: 11/6/23 REV: -  
 SCALE: AS SHOWN PROJ.#: C2305  
 FILE: C2305.dwg

SHEET NUMBER:  
**C22**



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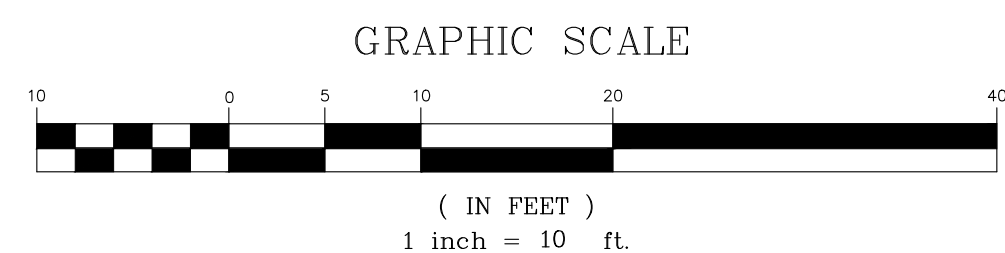
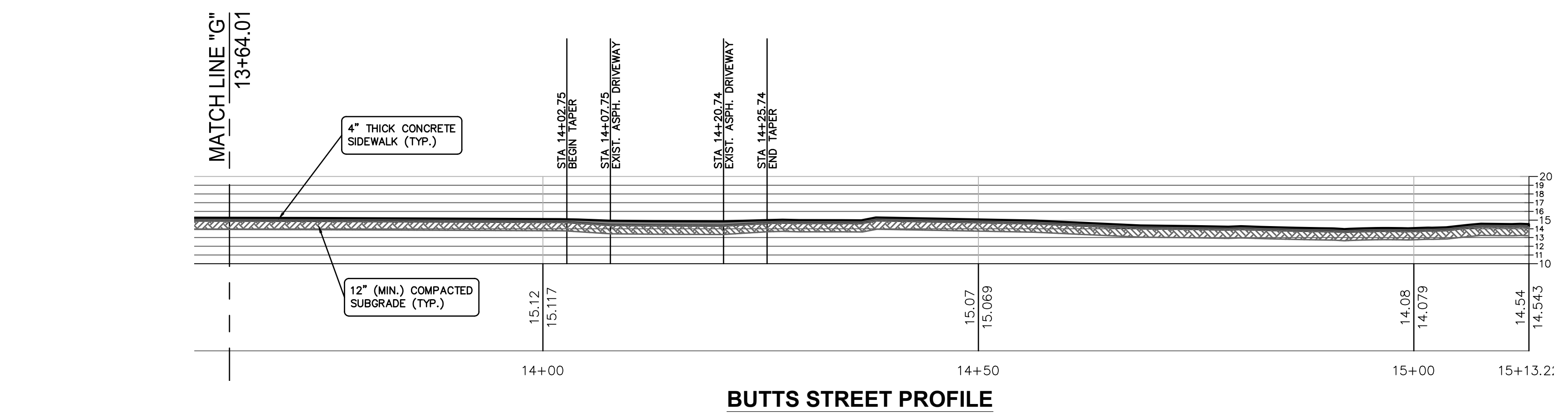
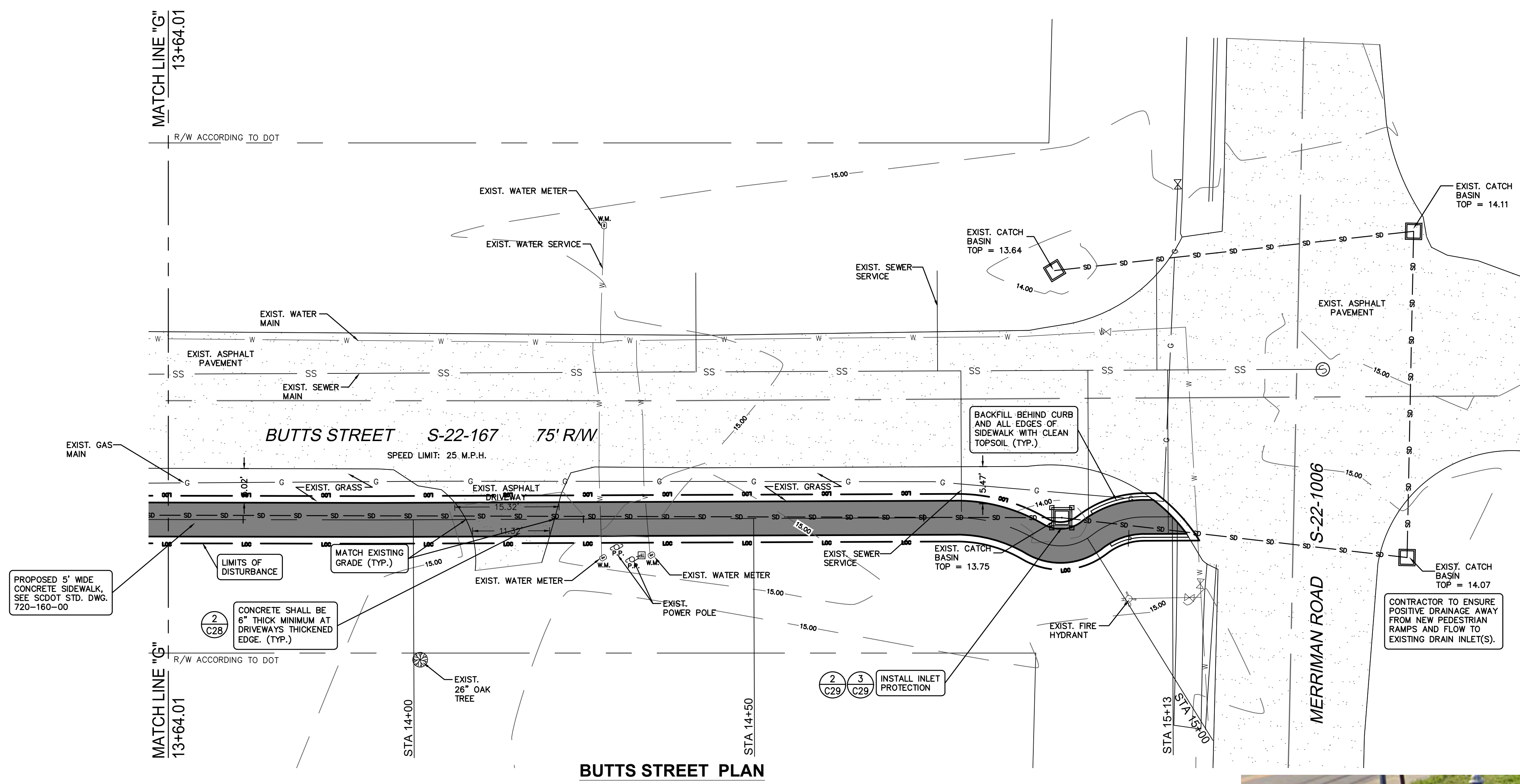
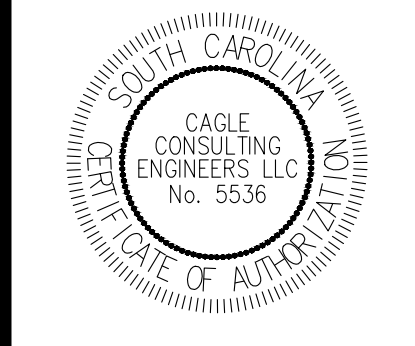
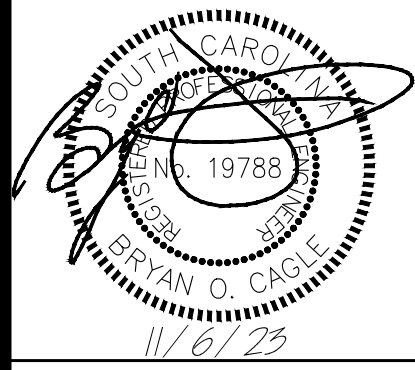
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**GRADING, DRAINAGE & EROSION CONTROL PLAN (BUTTS STREET)**

**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
Project No. 1236  
City of Georgetown, SC

**GRADING, DRAINAGE & EROSION CONTROL PLAN (BUTTS STREET)**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM CHK'D BY: BC  
DATE: 11/6/23 REV: -  
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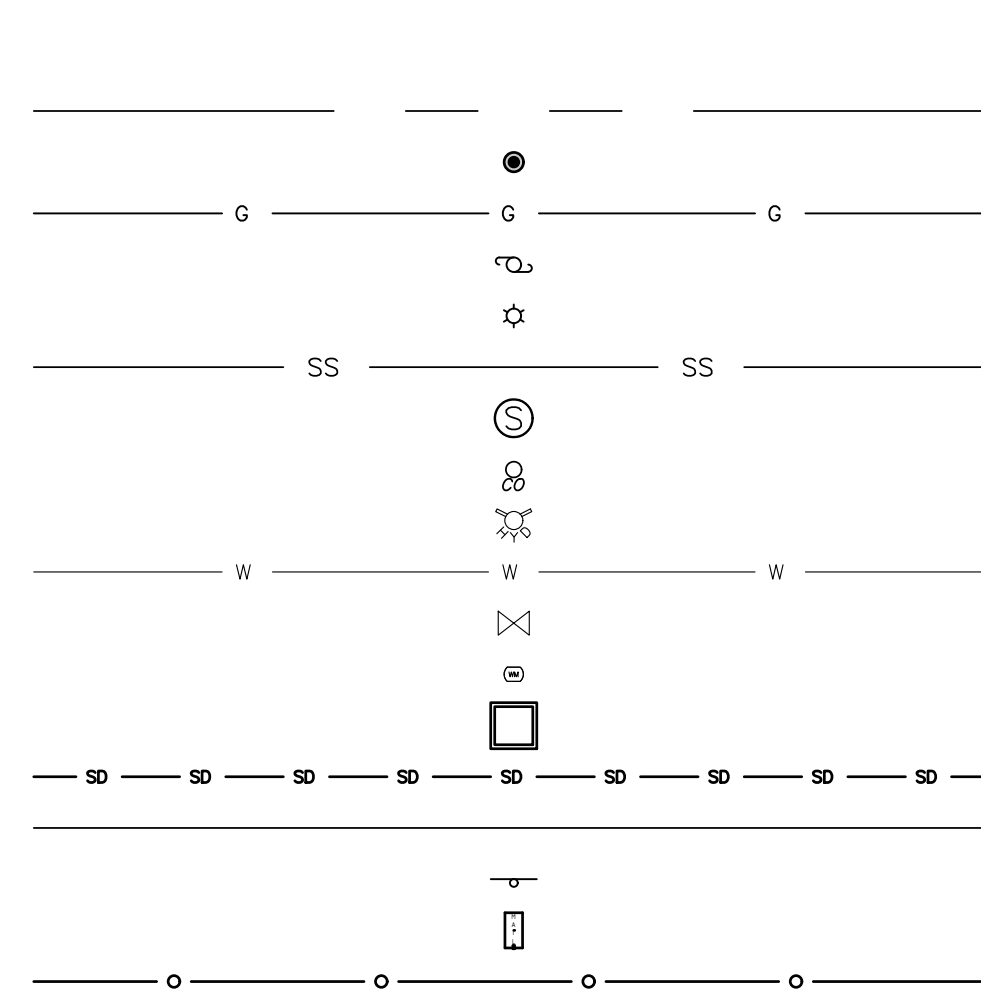
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**DHEC LEGEND**  
INLET PROTECTION (TYPE A)



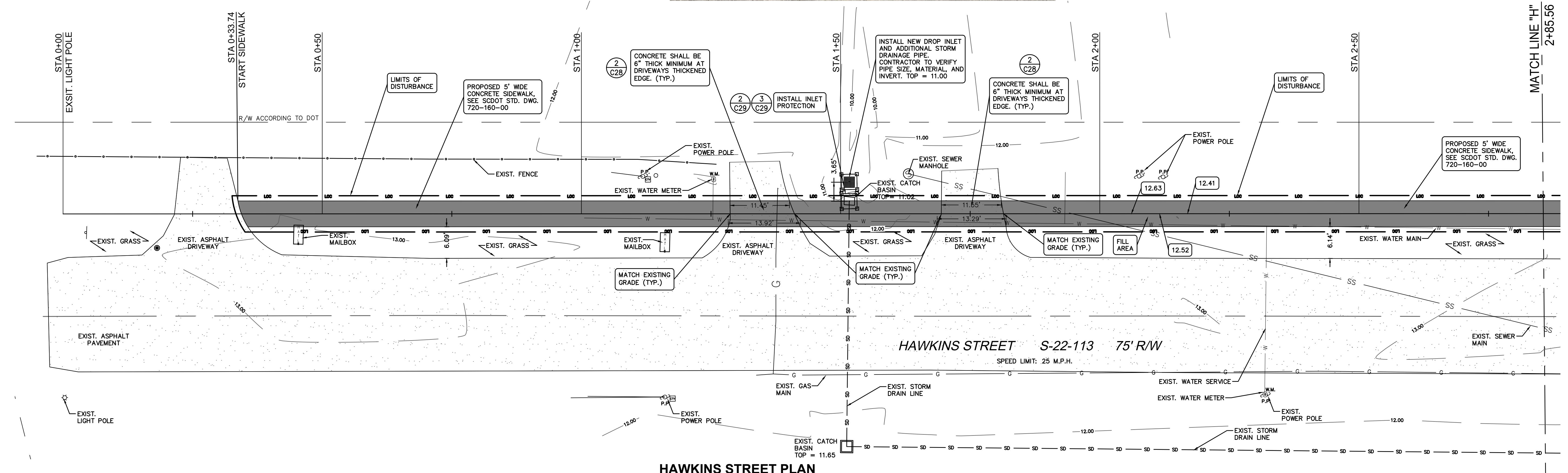
**LEGEND (EXISTING)**  
RIGHT-OF-WAY  
EXISTING IRON PIN FOUND  
EXISTING GAS LINE  
EXISTING UTILITY POLE  
EXISTING LIGHT POLE  
EXISTING SEWER LINE  
EXISTING SEWER MANHOLE  
EXISTING SEWER CLEANOUT  
EXISTING FIRE HYDRANT  
EXISTING WATER LINE  
EXISTING GATE VALVE  
EXISTING WATER METER  
EXISTING CATCH BASIN  
EXISTING STORM DRAIN LINE  
EXISTING EDGE OF PAVEMENT  
EXISTING STREET SIGN  
EXISTING MAILBOX  
EXISTING FENCE

**South Carolina 811**

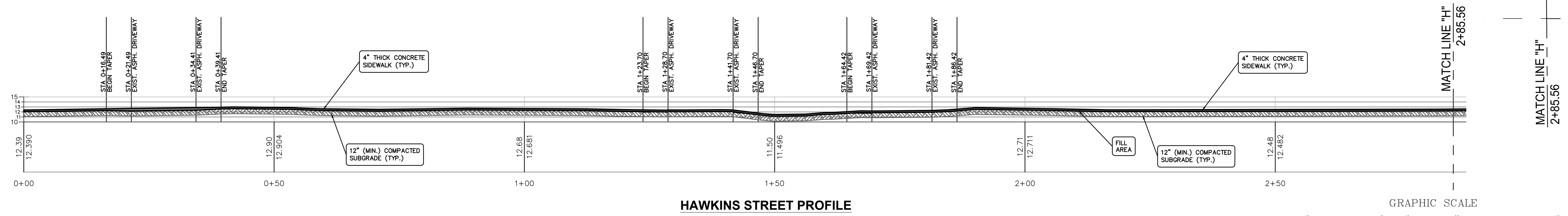
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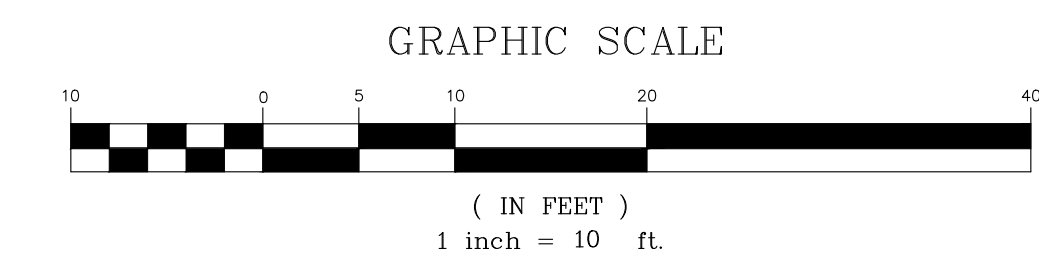


**HAWKINS STREET PLAN**



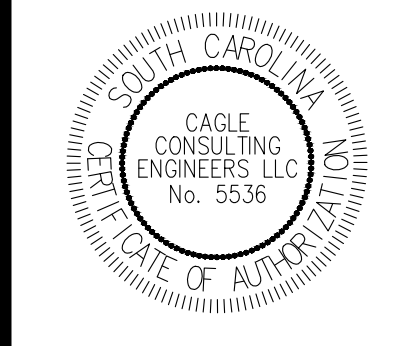
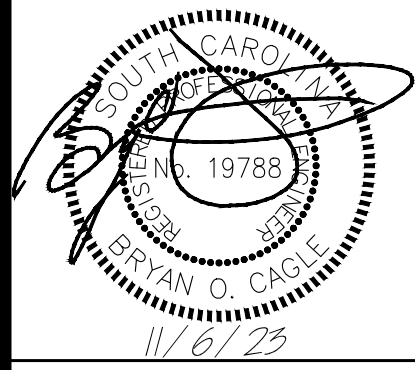
**HAWKINS STREET PROFILE**

**GRADING, DRAINAGE & EROSION CONTROL PLAN (HAWKINS STREET)**



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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
Project No. **1236**  
City of Georgetown, SC

**GRADING, DRAINAGE & EROSION CONTROL PLAN (HAWKINS STREET)**

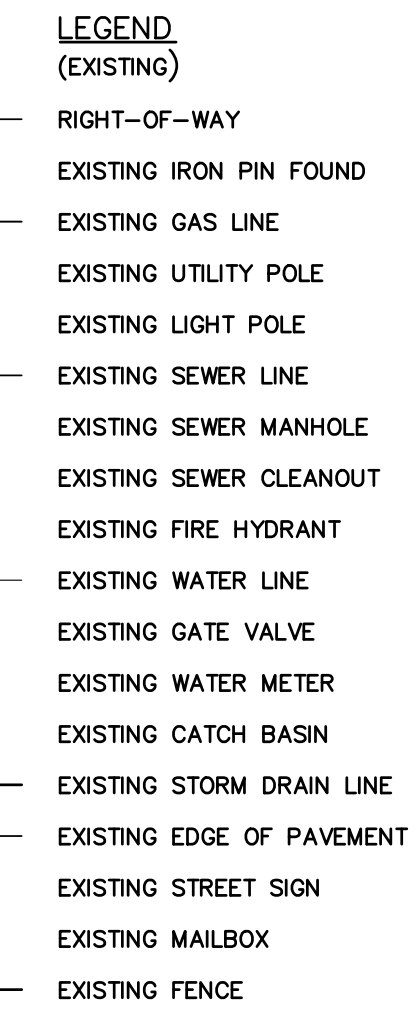
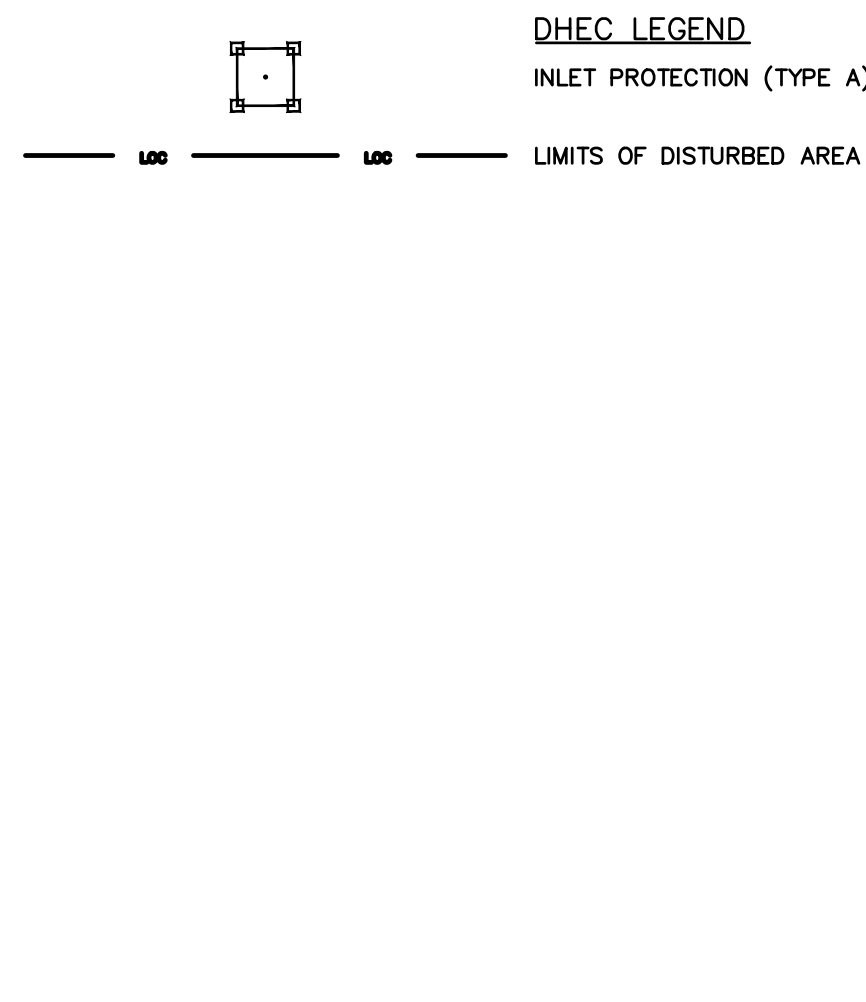
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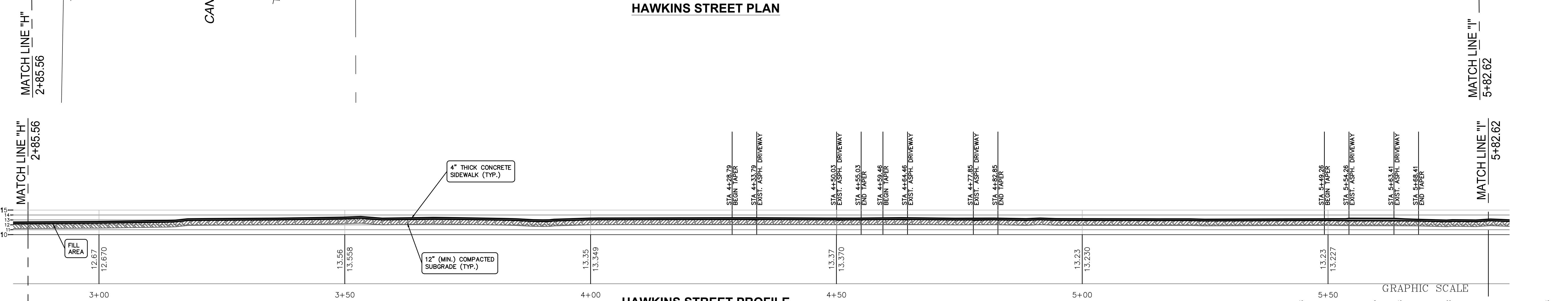
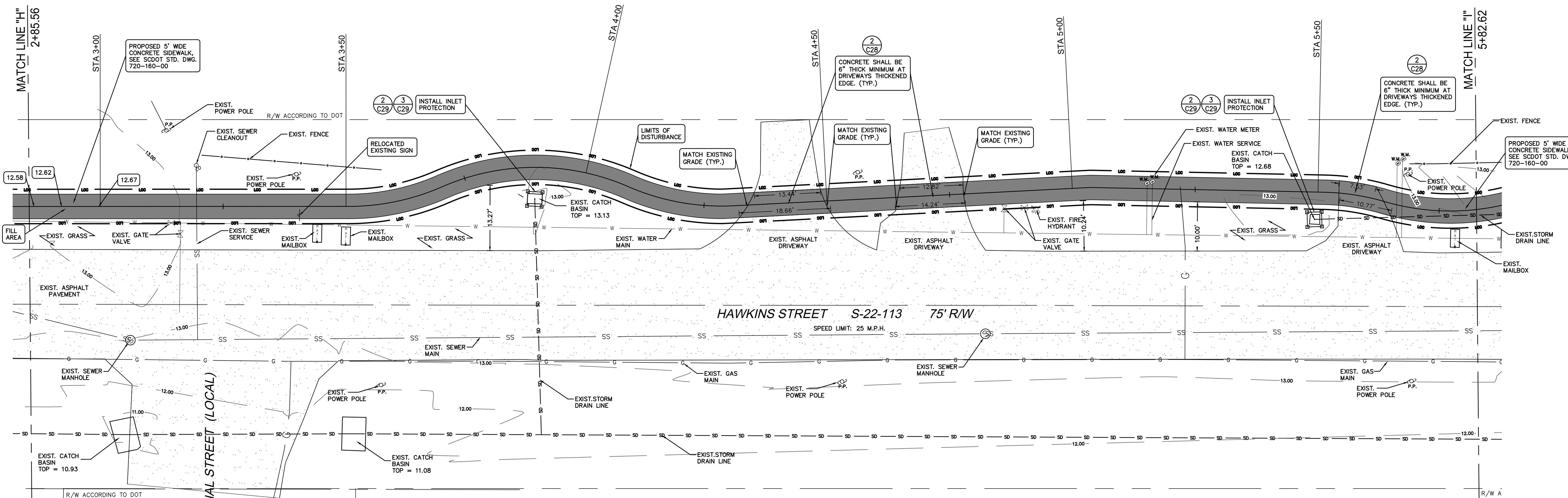


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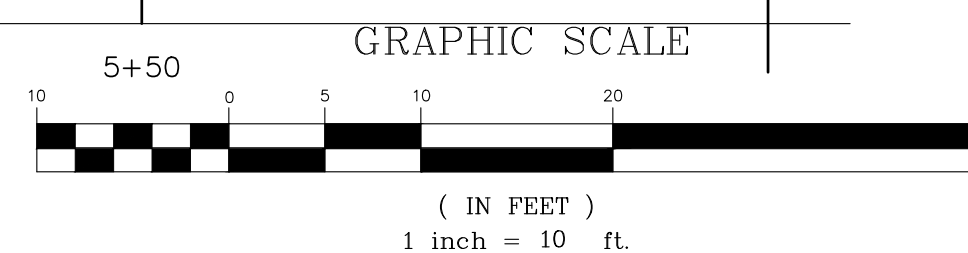
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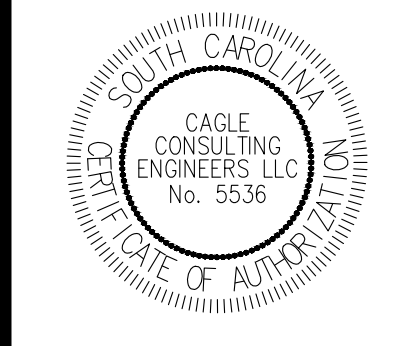
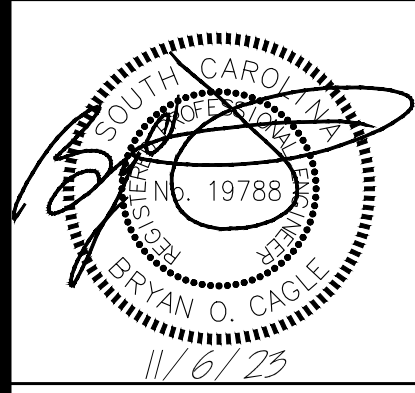
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**GRADING, DRAINAGE & EROSION CONTROL PLAN (HAWKINS STREET)**



**CAGLE CONSULTING ENGINEERS LLC**  
 PLANNING & DESIGN

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**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

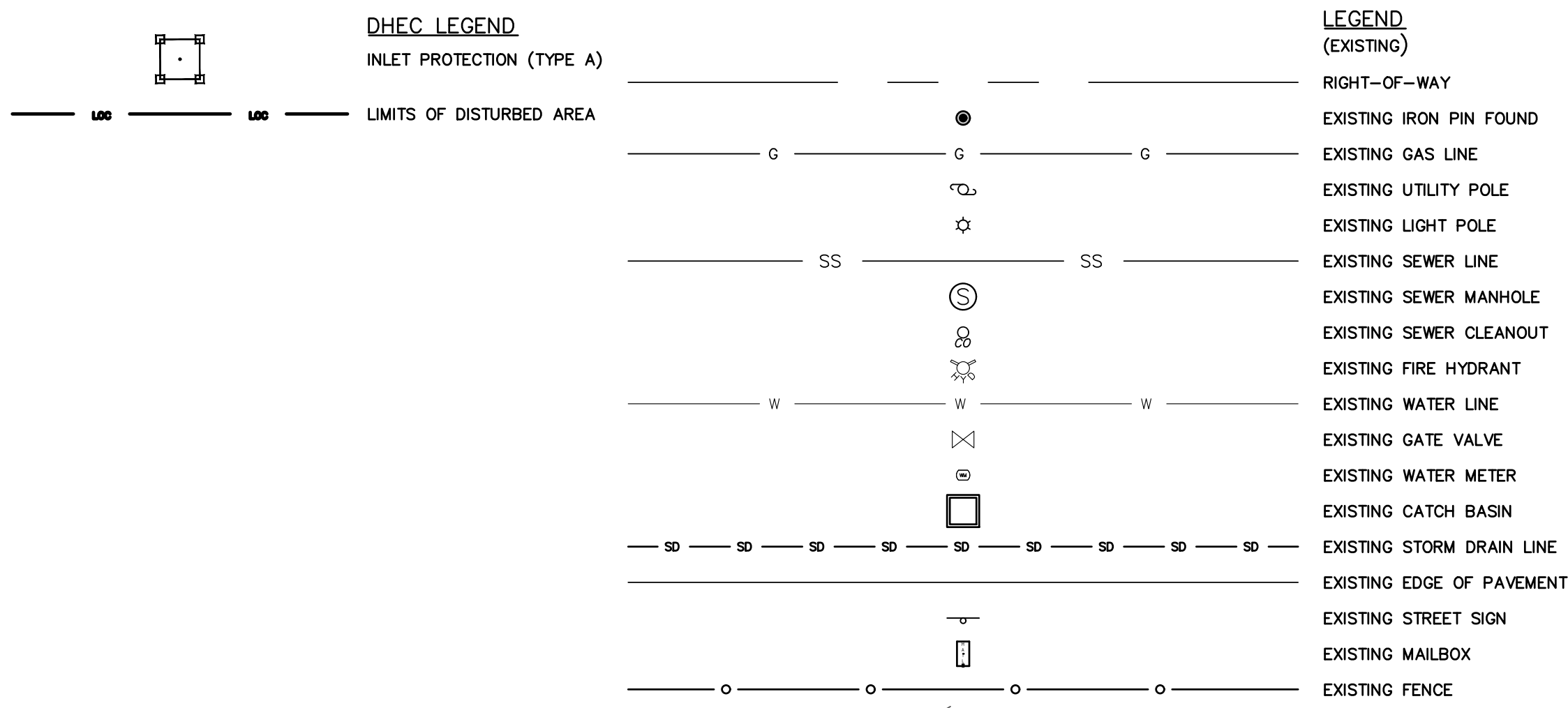
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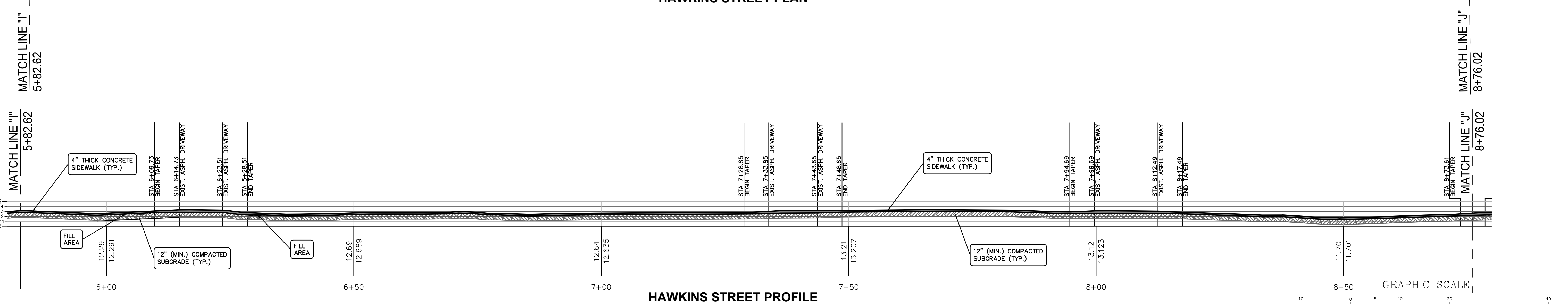
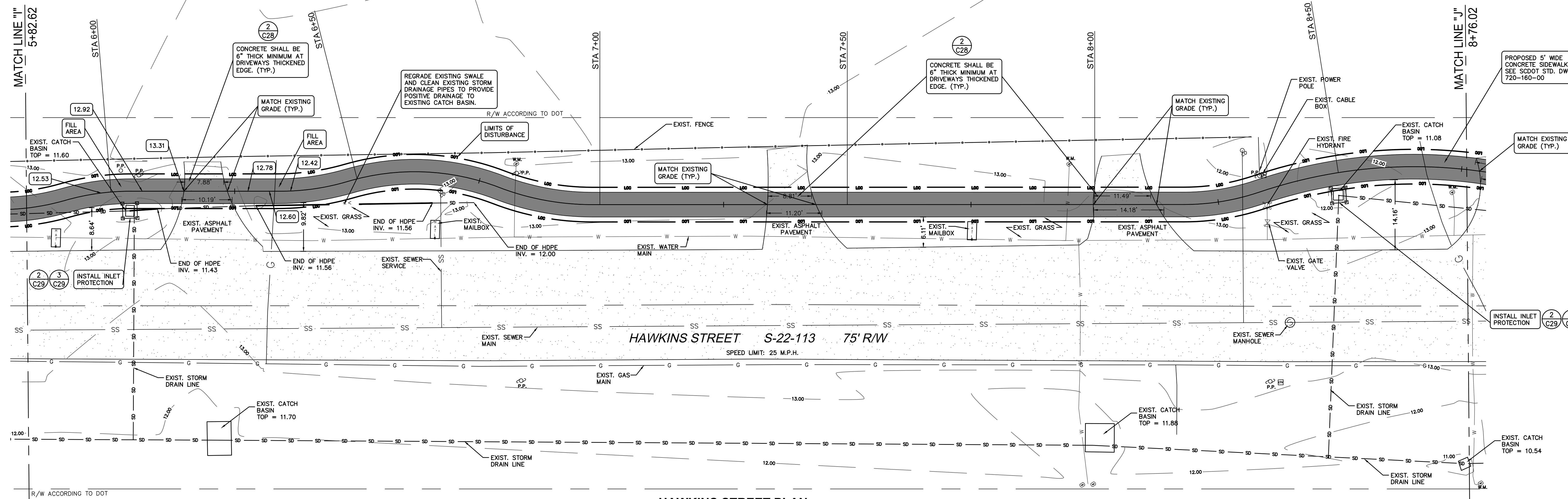
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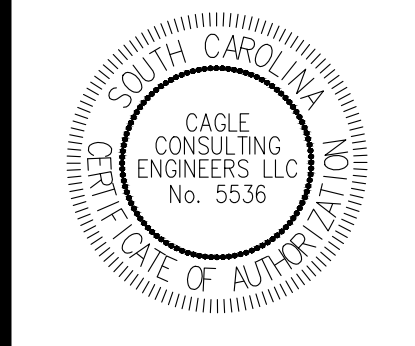
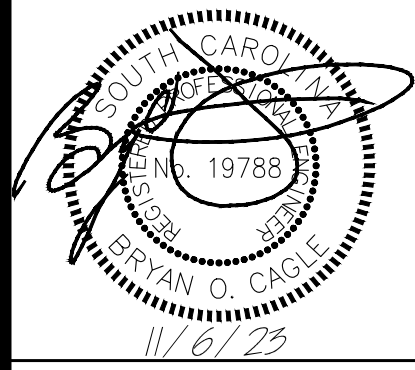
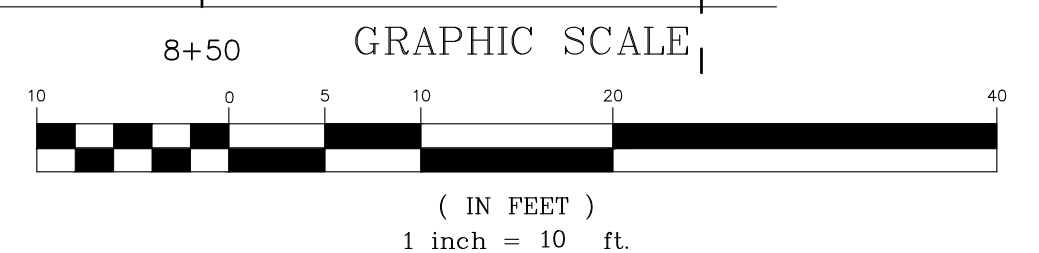
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**GRADING, DRAINAGE & EROSION CONTROL PLAN (HAWKINS STREET)**



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
 CITY OF GEORGETOWN, SC

Project Name:  
 Project No. **1236**  
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**GRADING, DRAINAGE & EROSION CONTROL PLAN (HAWKINS STREET)**

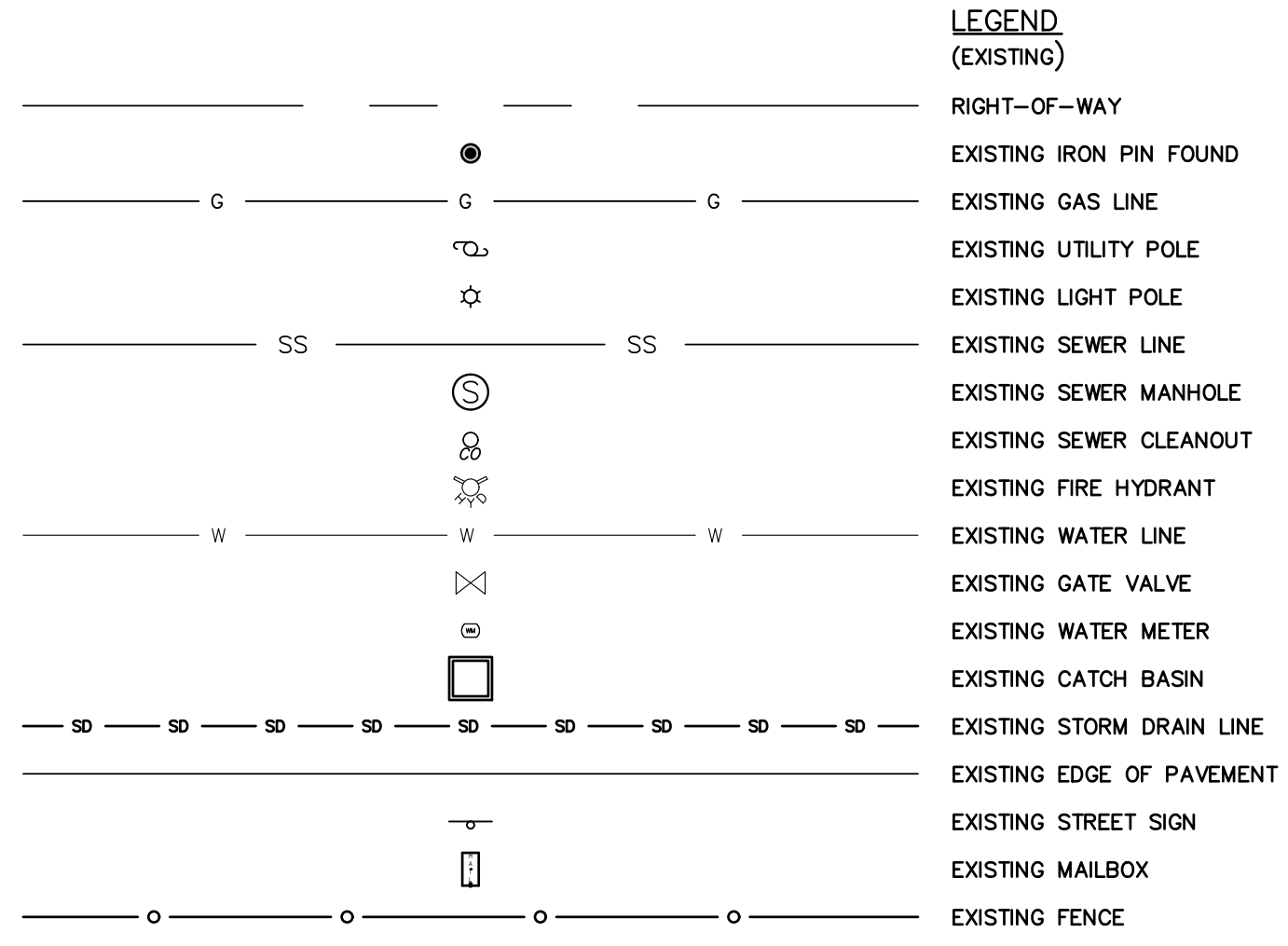
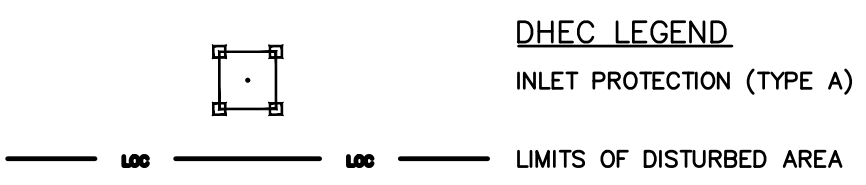
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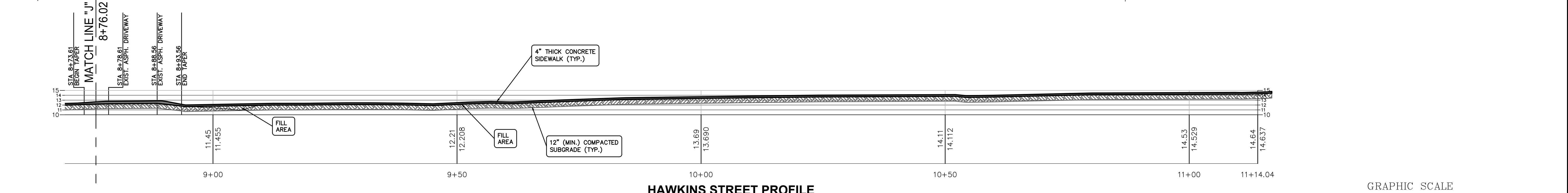
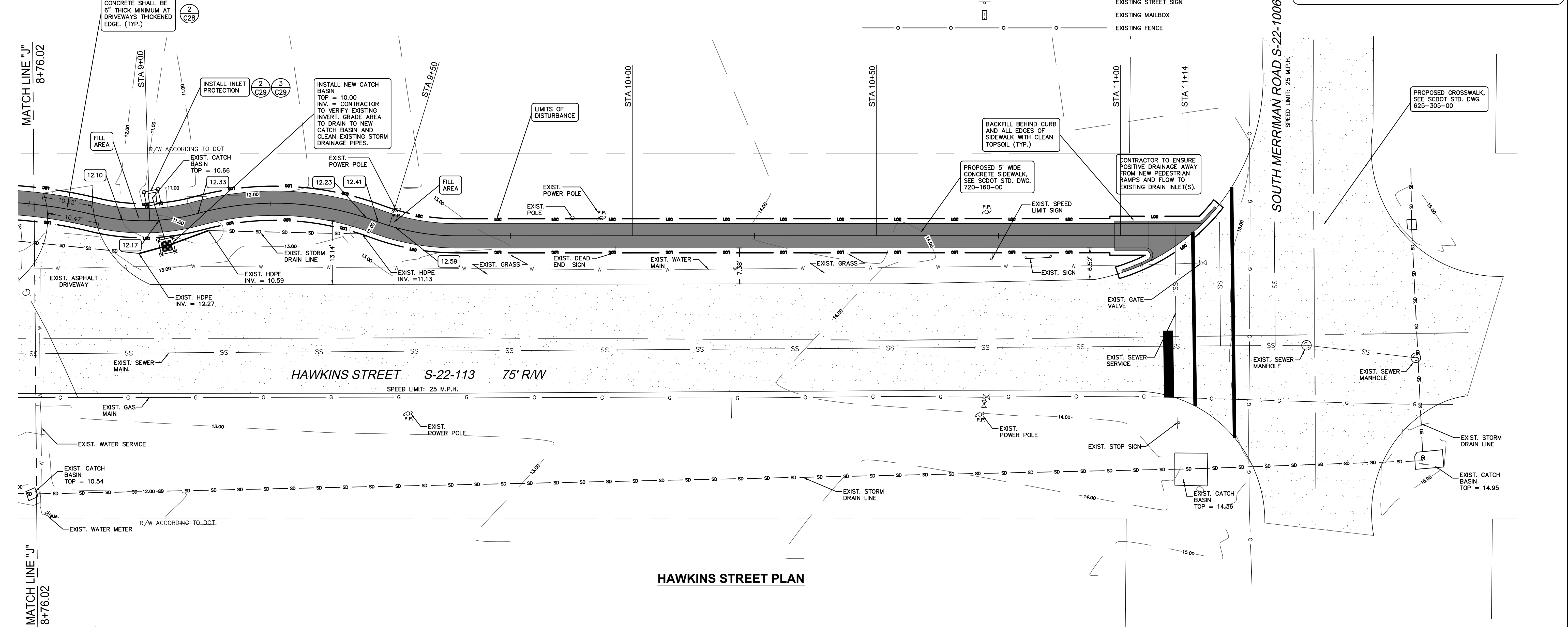
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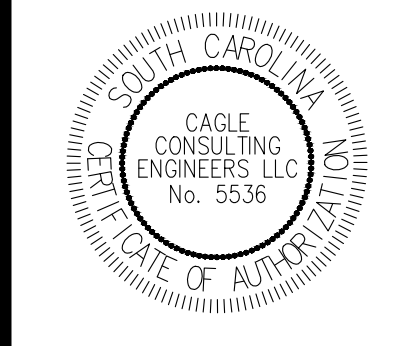
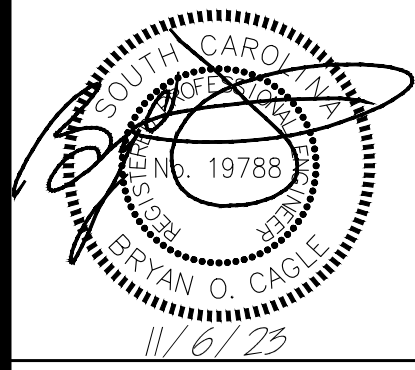
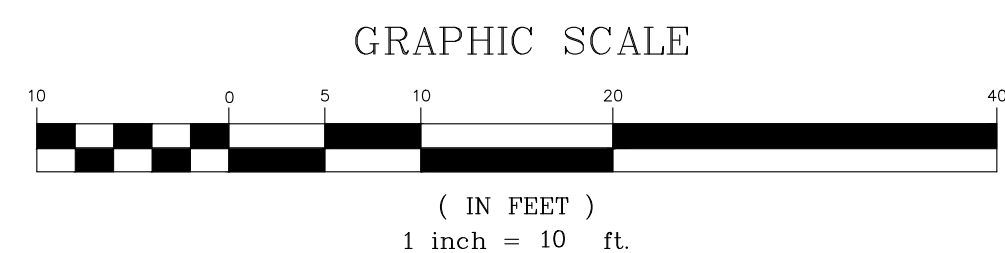
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**GRADING, DRAINAGE & EROSION CONTROL PLAN (HAWKINS STREET)**



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**

Project Name: **1236**

Project No. **1236**

Site Address: **CITY OF GEORGETOWN, SC**

**GRADING, DRAINAGE & EROSION CONTROL PLAN (HAWKINS STREET)**

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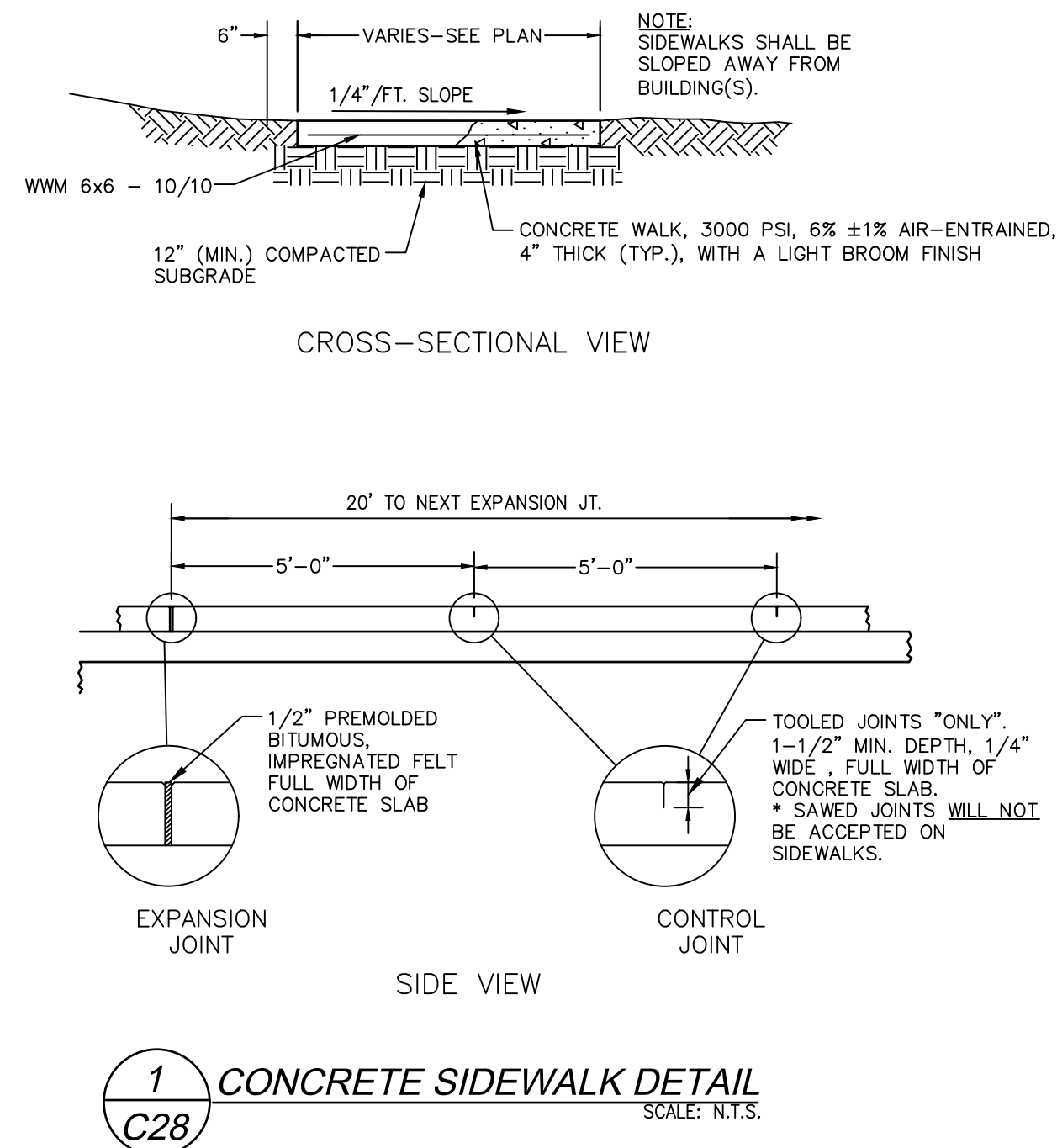
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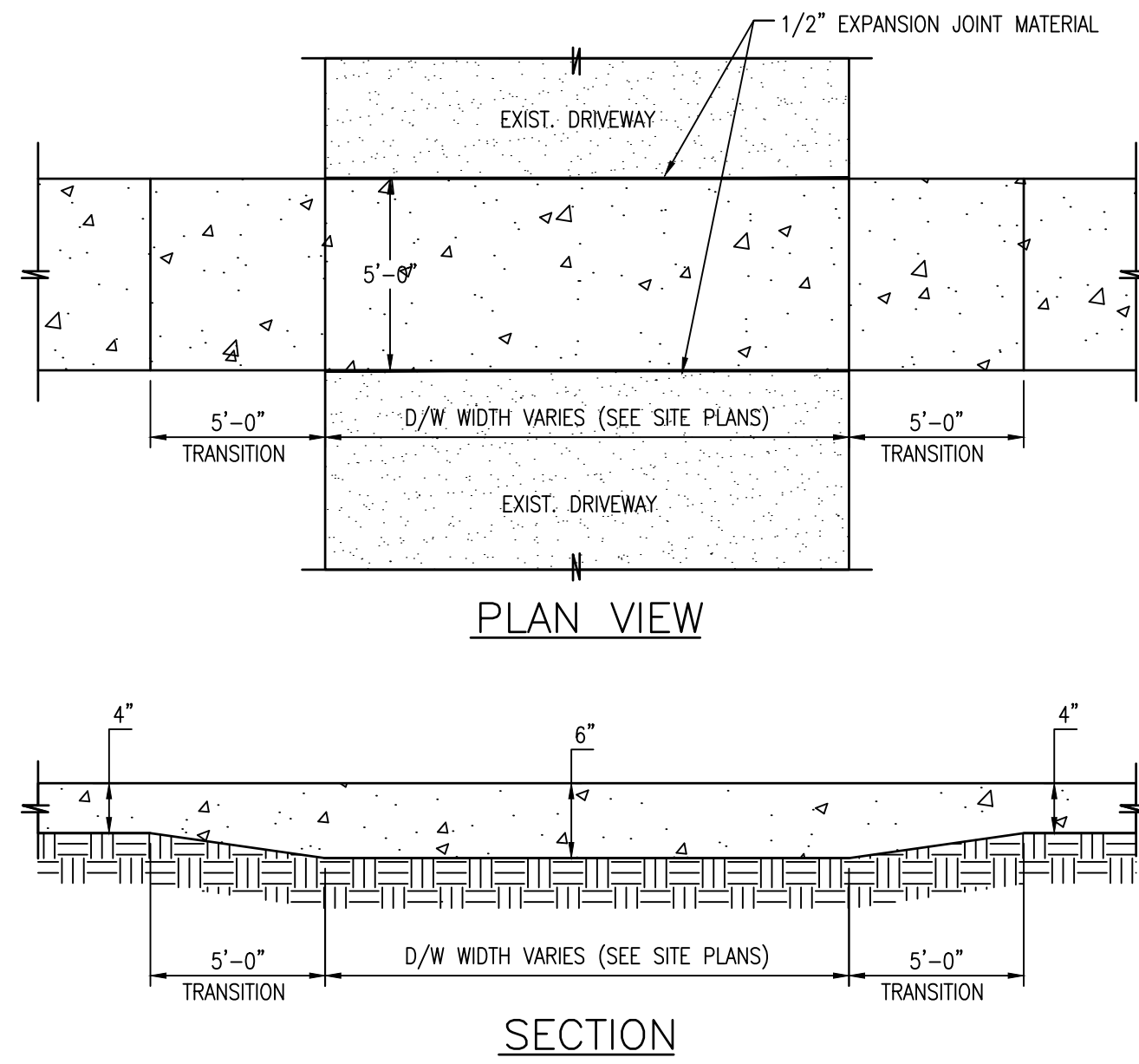


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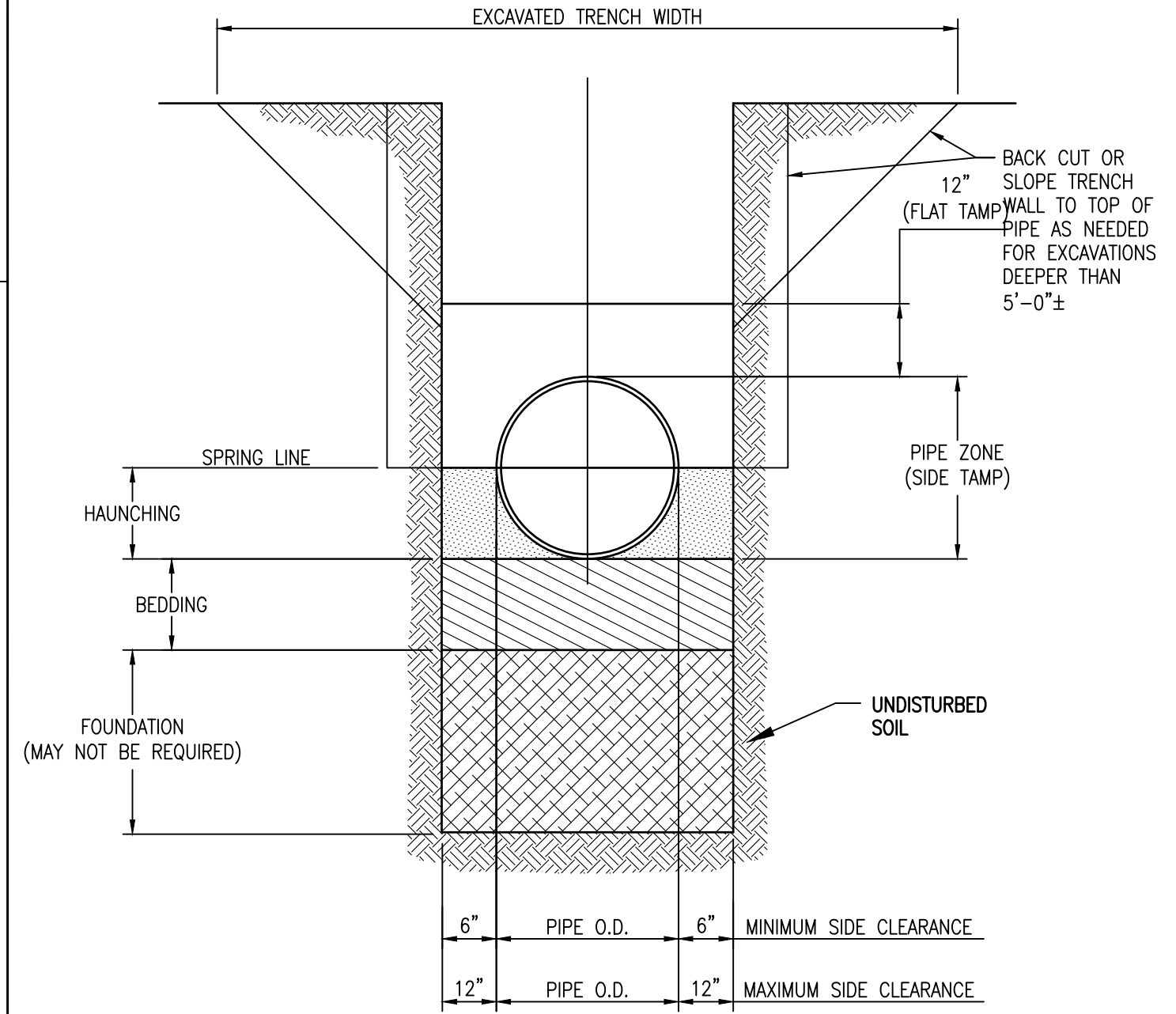
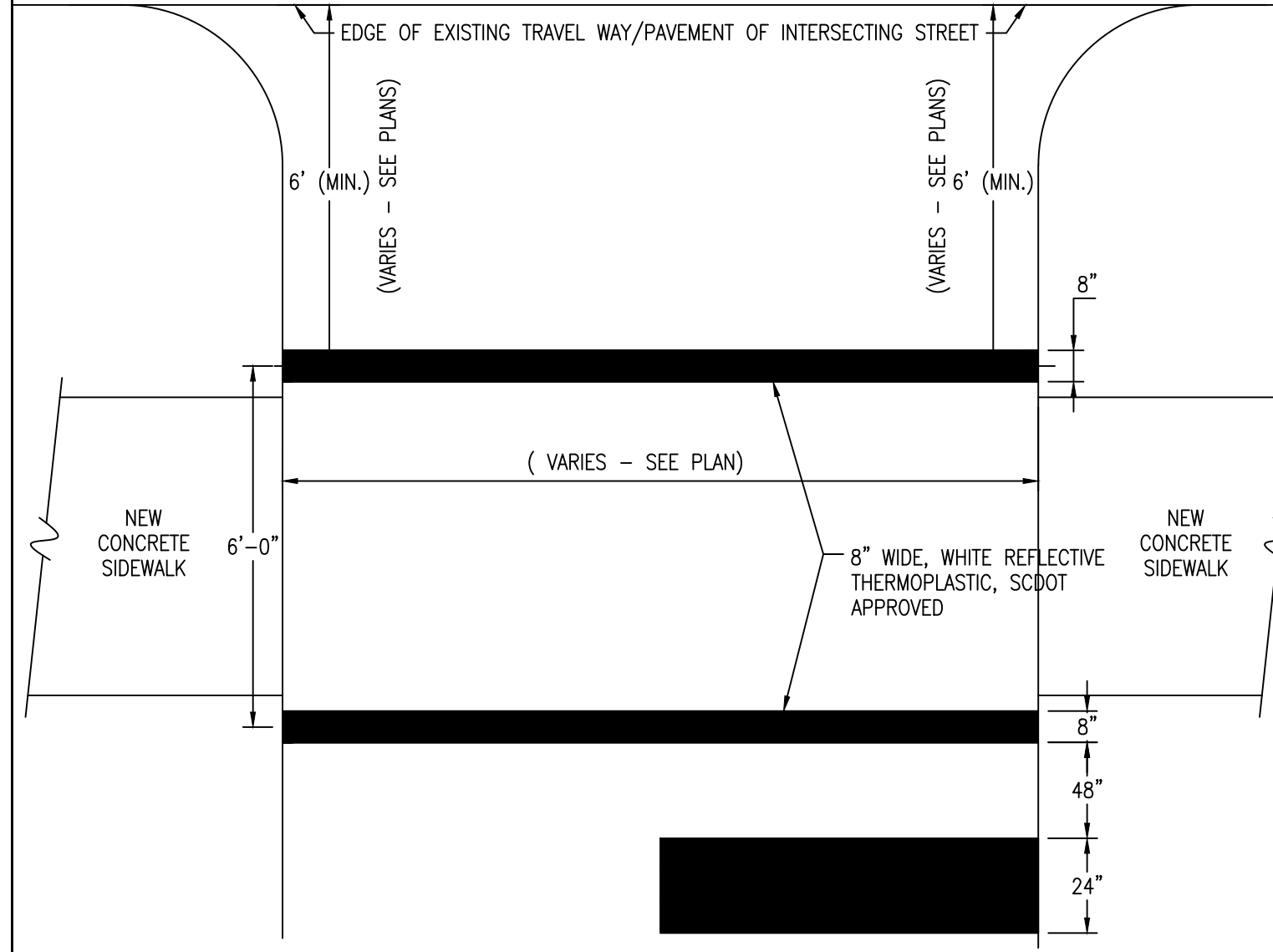


**ADDITIONAL CONCRETE NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT THE CONCRETE AND THE FINISH UNTIL THE CONCRETE HAS SUFFICIENTLY CURED TO WITHSTAND TRAFFIC. THE CONTRACTOR SHALL USE A COMBINATION OF BARRICADES, CONSTRUCTION BARRELS, CONES, FLAGGING, ETC. AS NECESSARY TO KEEP ANY PEDESTRIAN AND VEHICLE TRAFFIC OFF THE NEWLY POURED CONCRETE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND/OR REPLACE SECTIONS OF CONCRETE THAT ARE DAMAGED OR IMPRINTED BY PEDESTRIAN OR VEHICLE TRAFFIC.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO CLEAN ALL DIRT, DEBRIS OR SOIL STAINS OFF OF THE CONCRETE AT THE END OF THE PROJECT AND BEFORE DEMOBILIZING.
4. THE CONTRACTOR SHALL REMOVE ALL EXCESS DIRT SPOILS, DEBRIS OR DEMOLITION MATERIALS FROM THE SITE AND HAUL OFF-SITE TO AN APPROVED LANDFILL.

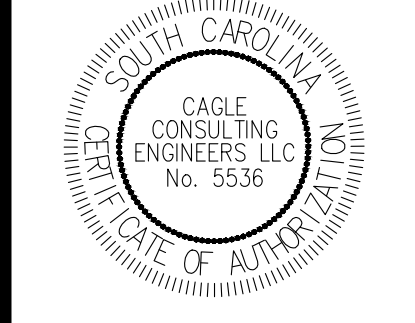
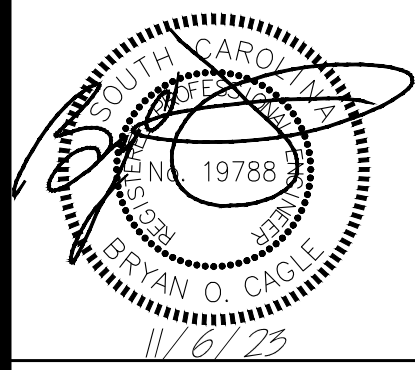


- NOTE:**
1. CONCRETE SIDEWALKS SHALL CONTINUE THROUGH EXISTING DRIVEWAYS. SAWCUT A STRAIGHT, VERTICAL, CLEAN EDGE AND REMOVE EXISTING ASPHALT.
  2. THE CONTRACTOR SHALL MINIMIZE THE NUMBER OF DRIVEWAY ENTRANCES INTERRUPTED TO THE LENGTH OF SIDEWALK TO BE POURED IN A SINGLE POUR.
  3. INSTALL 1/2" PREMOLDED EXP. JOINT WHERE NEW CONCRETE SIDEWALK ABUTS EXISTING ASPHALT PAVEMENTS, EXISTING CONCRETE AND/OR OTHER STRUCTURES. ALLOW SPACE OUTSIDE THE WIDTH OF SIDEWALK FOR 1/2" PREMOLDED EXP. JOINT MATERIAL WHEN SAWCUTTING EXISTING ASPHALT.



- NOTES:**
1. SLOPE AS REQUIRED TO MAINTAIN STABILITY OF TRENCH SIDE WALL OR PROVIDE SHEETING TO INSURE SAFETY OF PERSONNEL AND PROTECT ADJACENT STRUCTURES.
  2. FOR TRENCHES REQUIRING SHEETING, SHORING, STAY BRACING, TRENCH JACKS OR TRENCH BOX, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SUPPORTS
  3. IF THE MAXIMUM TRENCH WIDTH MUST BE EXCEEDED OR IF THE PIPE IS INSTALLED IN A COMPACTED EMBANKMENT, THEN PIPE EMBEDMENT SHOULD BE COMPACTED TO A POINT AT LEAST 2-1/2" x PIPE DIAMETER FROM THE PIPE ON BOTH SIDES OF THE PIPE TO THE TRENCH WALLS, WHICHEVER IS LESS.
  4. BEDDING IS REQUIRED TO BRING TRENCH BOTTOM UP TO GRADE AND PROVIDE UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. A MINIMUM COMPACTED DEPTH OF 6 INCHES OF SELECT EMBEDMENT MATERIAL IS REQUIRED.
  5. USE SELECT BACK FILL IN TRENCH. PLACE IN 6" COMPACTED LAYERS. CONTRACTOR TO ENSURE 95% AASHTO DENSITY UNDER ROADWAYS, 90% OTHERWISE.

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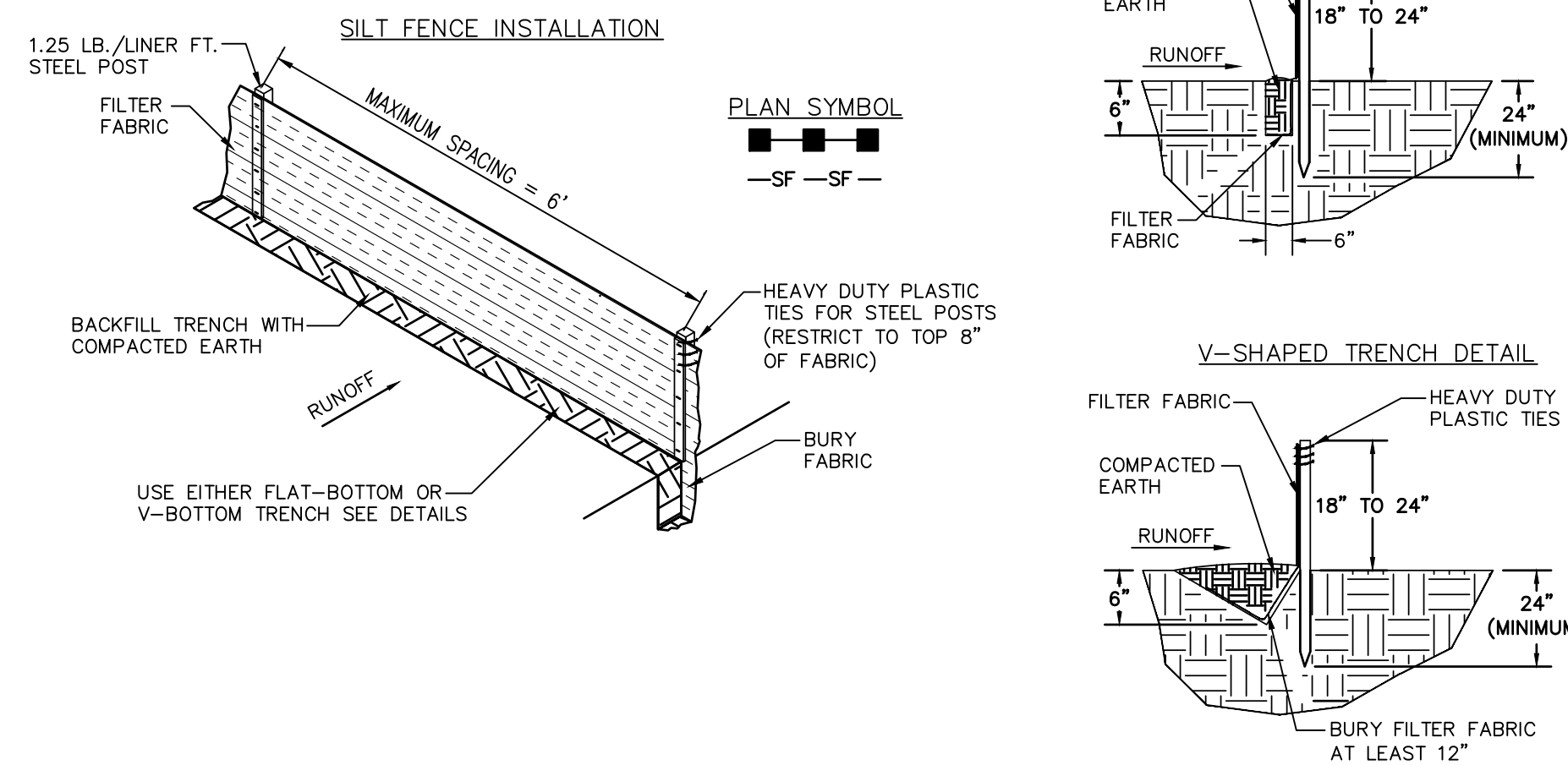
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**SILT FENCE - POST REQUIREMENTS**

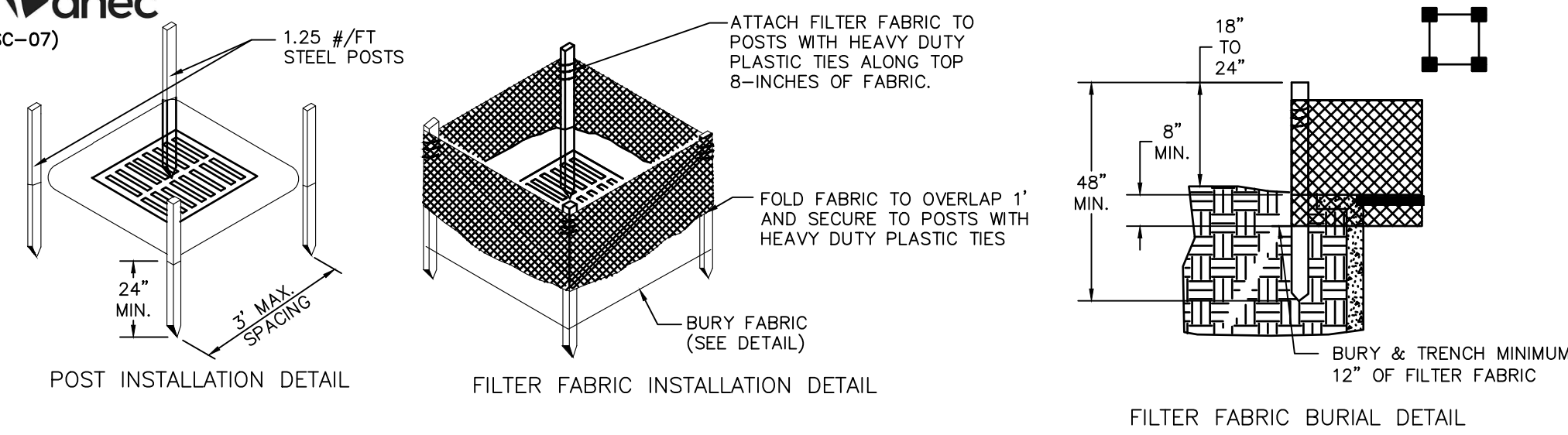
- SILT FENCE POSTS MUST BE 48-INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:
  - COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
  - INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND A NOMINAL "T" LENGTH OF 1.48-INCHES.
  - WEIGH 1.25 POUNDS PER FOOT (± 8%).
- POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
- STEEL POSTS MAY NEED TO HAVE A METAL SOIL STABILIZATION PLATE WELDED NEAR THE BOTTOM WHEN INSTALLED ALONG STEEP SLOPES OR INSTALLED IN LOOSE SOILS. THE PLATE SHOULD HAVE A MINIMUM CROSS SECTION OF 17-SQUARE INCHES AND BE COMPOSED OF 15 GAUGE STEEL, AT A MINIMUM. THE METAL SOIL STABILIZATION PLATE SHOULD BE COMPLETELY BURIED.
- INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1- TO 2- INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
- POST SPACING SHALL BE AT A MAXIMUM OF 6- FEET ON CENTER.

**SILT FENCE - GENERAL NOTES**

- DO NOT PLACE SILT FENCE ACROSS CHANNELS OR IN OTHER AREAS SUBJECT TO CONCENTRATED FLOWS. SILT FENCE SHOULD NOT BE USED AS A VELOCITY CONTROL BMP. CONCENTRATED FLOWS ARE ANY FLOWS GREATER THAN 0.5 CFS.
- MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE SILT FENCE SHALL BE 100- FEET.
- MAXIMUM SLOPE STEEPNESS (NORMAL [PERPENDICULAR] TO THE FENCE LINE) SHALL BE 2:1.
- SILT FENCE JOINTS, WHEN NECESSARY, SHALL BE COMPLETED BY ONE OF THE FOLLOWING OPTIONS:
  - WRAP EACH FABRIC TOGETHER AT A SUPPORT POST WITH BOTH ENDS FASTENED TO THE POST, WITH A 1-FOOT MINIMUM OVERLAP; OVERLAP SILT FENCE BY INSTALLING 3- FEET PASSED THE SUPPORT POST TO WHICH THE NEW SILT FENCE ROLL IS ATTACHED. ATTACH OLD ROLL TO NEW ROLL WITH HEAVY-DUTY PLASTIC TIES; OR,
  - OVERLAP ENTIRE WIDTH OF EACH SILT FENCE ROLL FROM ONE SUPPORT POST TO THE NEXT SUPPORT POST.
- ATTACH FILTER FABRIC TO THE STEEL POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED WITHIN THE TOP 8-INCHES OF THE FABRIC.
- INSTALL THE SILT FENCE PERPENDICULAR TO THE DIRECTION OF THE STORMWATER FLOW AND PLACE THE SILT FENCE THE PROPER DISTANCE FROM THE TOE OF STEEP SLOPES TO PROVIDE SEDIMENT STORAGE AND ACCESS FOR MAINTENANCE AND CLEANOUT.
- INSTALL SILT FENCE CHECKS (TIE-BACKS) EVERY 50-100 FEET, DEPENDENT ON SLOPE, ALONG SILT FENCE THAT IS INSTALLED WITH SLOPE AND WHERE CONCENTRATED FLOWS ARE EXPECTED OR ARE DOCUMENTED ALONG THE PROPOSED/INSTALLED SILT FENCE.

**1 SILT FENCE SEDIMENT BARRIER**  
SCALE: N.T.S.

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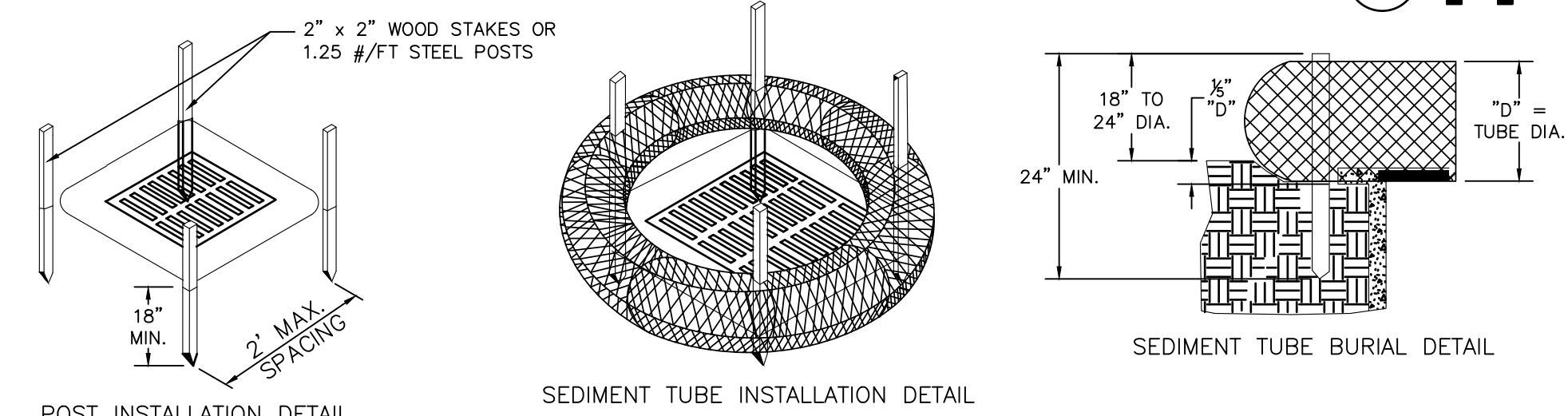


- TYPE A - FILTER FABRIC REQUIREMENTS**
- SILT FENCE MUST BE COMPOSED OF WOVEN GEOTEXTILE FILTER FABRIC THAT CONSISTS OF THE FOLLOWING REQUIREMENTS:
    - COMPOSED OF FIBERS CONSISTING OF LONG CHAIN SYNTHETIC POLYMERS OF AT LEAST 85% BY WEIGHT OF POLYOLEFINS, POLYESTERS, OR POLYAMIDES THAT ARE FORMED INTO A NETWORK SUCH THAT THE FILAMENTS OR YARNS RETAIN DIMENSIONAL STABILITY RELATIVE TO EACH OTHER;
    - FREE OF ANY TREATMENT OR COATING WHICH MIGHT ADVERSELY ALTER ITS PHYSICAL PROPERTIES AFTER INSTALLATION;
    - FREE OF ANY DEFECTS OR FLAWS THAT SIGNIFICANTLY AFFECT ITS PHYSICAL AND/OR FILTERING PROPERTIES; AND,
    - HAVE A MINIMUM WIDTH OF 36-INCHES.
  - USE ONLY FABRIC APPEARING ON SC DOT'S QUALIFIED PRODUCTS LISTING (OPL), APPROVAL SHEET #34, MEETING THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE SC DOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
  - 12-INCHES OF THE FABRIC SHOULD BE PLACED WITHIN EXCAVATED TRENCH AND TOED IN WHEN THE TRENCH IS BACKFILLED.
  - FILTER FABRIC SHALL BE PURCHASED IN CONTINUOUS ROLLS AND CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS.
  - FILTER FABRIC SHALL BE INSTALLED AT A MINIMUM OF 24-INCHES ABOVE THE GROUND.

- TYPE A - POST REQUIREMENTS**
- SILT FENCE POSTS MUST BE 48-INCH LONG STEEL POSTS THAT MEET, AT A MINIMUM, THE FOLLOWING PHYSICAL CHARACTERISTICS:
    - COMPOSED OF A HIGH STRENGTH STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI.
    - INCLUDE A STANDARD "T" SECTION WITH A NOMINAL FACE WIDTH OF 1.38-INCHES AND A NOMINAL "T" LENGTH OF 1.48-INCHES.
    - WEIGH 1.25 POUNDS PER FOOT (± 8%).
  - POSTS SHALL BE EQUIPPED WITH PROJECTIONS TO AID IN FASTENING OF FILTER FABRIC.
  - INSTALL POSTS TO A MINIMUM OF 24-INCHES. A MINIMUM HEIGHT OF 1- TO 2- INCHES ABOVE THE FABRIC SHALL BE MAINTAINED, AND A MAXIMUM HEIGHT OF 3 FEET SHALL BE MAINTAINED ABOVE THE GROUND.
  - POST SPACING SHALL BE AT A MAXIMUM OF 3- FEET ON CENTER.

- TYPE A - INSPECTION & MAINTENANCE**
- THE KEY TO FUNCTIONAL INLET PROTECTION IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
  - REGULAR INSPECTIONS OF INLET PROTECTION SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
  - ATTENTION TO SEDIMENT ACCUMULATIONS ALONG THE FILTER FABRIC IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
  - REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE FILTER FABRIC. WHEN A SUMP IS INSTALLED IN FRONT OF THE FABRIC, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE SUMP.
  - REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
  - CHECK FOR AREAS WHERE STORMWATER RUNOFF HAS ERODED A CHANNEL BENEATH THE FILTER FABRIC, OR WHERE THE FABRIC HAS SAGGED OR COLLAPSED DUE TO RUNOFF OVERTOPPING THE INLET PROTECTION.
  - CHECK FOR TEARS WITHIN THE FILTER FABRIC, AREAS WHERE FABRIC HAS BEGUN TO DECOMPOSE, AND FOR ANY OTHER CIRCUMSTANCE THAT MAY RENDER THE INLET PROTECTION INEFFECTIVE. REMOVE DAMAGED FABRIC AND REINSTALL NEW FILTER FABRIC IMMEDIATELY.
  - INLET PROTECTION STRUCTURES SHOULD BE REMOVED AFTER ALL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. STABILIZE ALL BARE AREAS IMMEDIATELY.

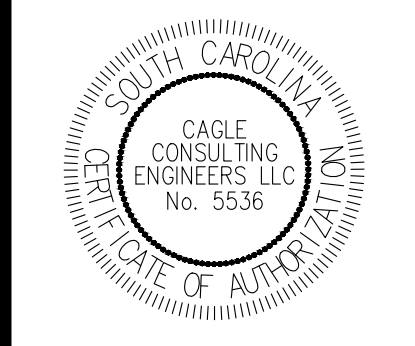
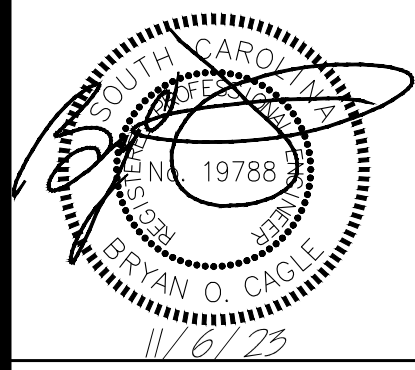
**2 FILTER FABRIC INLET PROTECTION DETAIL (TYPE A)**  
SCALE: N.T.S.



- GENERAL NOTES**
- SEDIMENT TUBES ARE ELONGATED TUBES OF COMPACTED GEOTEXTILES, CURLED EXCELSIOR WOOD, NATURAL COCONUT FIBER, OR HARDWOOD MULCH, STRAW, PINE NEEDLE, AND LEAF MULCH-FILLED SEDIMENT TUBES ARE NOT PERMITTED.
  - THE OUTER NETTING OF THE SEDIMENT TUBE SHOULD CONSIST OF SEAMLESS, HIGH-DENSITY POLYETHYLENE PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR A SEAMLESS, HIGH-DENSITY POLYETHYLENE NON-DEGRADABLE MATERIAL.
  - SEDIMENT TUBE DIAMETERS SHALL RANGE FROM 18-INCHES TO 24-INCHES. SEDIMENT TUBES WITH SMALLER DIAMETERS ARE PROHIBITED WHEN USED AS INLET PROTECTION.
  - CURLED EXCELSIOR WOOD, OR NATURAL COCONUT PRODUCTS THAT ARE ROLLED UP TO CREATE A SEDIMENT TUBE ARE NOT ALLOWED.
  - SEDIMENT TUBES SHOULD BE STAKED USING WOODEN OAK STAKES (2-INCH X 2-INCH) OR STEEL POSTS (STANDARD "U" OR "T" SECTIONS WITH A MINIMUM WEIGHT OF 1.25 POUNDS PER FOOT) AT A MINIMUM OF 48-INCHES IN LENGTH PLACED ON 2-FOOT CENTERS.
  - INSTALL ALL SEDIMENT TUBES TO ENSURE THAT NO GAPS EXIST BETWEEN THE SOIL AND THE BOTTOM OF THE TUBE. MANUFACTURER'S RECOMMENDATIONS SHOULD ALWAYS BE CONSULTED BEFORE INSTALLATION.
  - THE ENDS OF ADJACENT SEDIMENT TUBES SHOULD BE OVERLAPPED 6-INCHES TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT.
  - SEDIMENT TUBES SHOULD NOT BE STACKED ON TOP OF ONE ANOTHER.
  - EACH SEDIMENT TUBE SHOULD BE INSTALLED IN A TRENCH WITH A DEPTH EQUAL TO 1/5 THE DIAMETER OF THE SEDIMENT TUBE.
  - INSTALL STAKES AT A DIAGONAL FACING INCOMING RUNOFF.

- INSPECTION & MAINTENANCE**
- THE KEY TO FUNCTIONAL INLET PROTECTION IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
  - REGULAR INSPECTIONS OF SEDIMENT TUBE INLET PROTECTION SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
  - ATTENTION TO SEDIMENT ACCUMULATIONS IN FRONT OF THE SEDIMENT TUBE IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT SHOULD BE CONTINUALLY MONITORED AND REMOVED WHEN NECESSARY.
  - REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE SEDIMENT TUBE. WHEN A SUMP IS INSTALLED IN FRONT OF THE INLET PROTECTION, SEDIMENT SHALL BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE SUMP.
  - REMOVED SEDIMENT SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS DISTURBED AREA. STABILIZE THE REMOVED SEDIMENT AFTER IT IS RELOCATED.
  - LARGE DEBRIS, TRASH, AND LEAVES SHOULD BE REMOVED FROM IN FRONT OF TUBES WHEN FOUND.
  - INLET PROTECTION STRUCTURES SHOULD BE REMOVED AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE DROP INLET STRUCTURE CREST. STABILIZE ALL BARE AREAS IMMEDIATELY.

**3 SEDIMENT TUBE INLET PROTECTION DETAIL (TYPE A)**  
SCALE: N.T.S.



**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
Project No. **1236**  
Site Address: **CITY OF GEORGETOWN, SC**

**EROSION CONTROL DETAILS**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

DRAWN BY: LAM CHK'D BY: BC  
DATE: 11/6/23 REV: -  
SCALE: AS SHOWN PROJ.#: C2305  
FILE: C2305.dwg

SHEET NUMBER:  
**C29**







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**REFERENCES**

NATIONAL DOCUMENTS  
REVISED DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY NOVEMBER, 2005  
MUTCD 2009

SCDOT DOCUMENTS  
SCDOT TRANSITION PLAN  
OPL 61

RELATED DRAWINGS & KEYWORDS  
025-305-00

THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.ORG FOR LATEST UPDATE.

**NOTES**

- SEE DRAWING 720-100-01 FOR STANDARD CURB AND GUTTER DETAILS.
- SEE DRAWING 720-100-02 FOR SYMBOLS AND CONSTRUCTION TOLERANCES.
- PLACE TRANSVERSE EXPANSION JOINTS AT 10' DEPTH ACROSS THE ENTIRE SIDEWALK WIDTH WHEN NEAR TURNS IN THE SIDEWALK, AND IN LONG CONTINUOUS RUNS OF SIDEWALK AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
- PLACE EXPANSION JOINTS BETWEEN THE SIDEWALK EDGE AND ANY ADJACENT STRUCTURE (RETAINING WALLS, BUILDINGS, ETC.).
- PLACE CONSTRUCTION JOINTS AT REGULAR INTERVALS BETWEEN EXPANSION JOINTS NOT TO EXCEED STANDARD SPECIFICATION SPACING.
- MEASURE SIDEWALK IN SQUARE YARDS BY THE ACTUAL PLACED AREA OF CONCRETE UP TO THE ADJACENT PAVEMENT LIMITS (CURBS, PEDESTRIAN RAMPS, DRIVEWAYS, ETC.).

**DETAIL 1**  
SCALE: 1/2" = 1'-0"  
SIDE ELEVATION

**DETAIL 2**  
SCALE: 1/2" = 1'-0"  
SIDE ELEVATION

**DETAIL 3**  
SCALE: 1/2" = 1'-0"  
PLAN VIEW

**DETAIL 4**  
ISOMETRIC VIEW

**SCDOT**  
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DESIGN STANDARDS OFFICE  
955 PARK STREET  
ROOM 405  
COLUMBIA, SC 29201

**STANDARD DRAWING**  
SIDEWALK WITH CURB STRIP ADJACENT TO GUTTER OR VALLEY GUTTER

720-100-00  
EFFECTIVE LETTING DATE: JANUARY, 2015

**REFERENCES**

NATIONAL DOCUMENTS  
REVISED DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY NOVEMBER, 2005  
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RELATED DRAWINGS & KEYWORDS  
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**1.00 GENERAL**

- CONSTRUCT PEDESTRIAN RAMPS CONFORMING TO THESE STANDARD DRAWINGS. SUBMIT RAMP DESIGN DRAWINGS TO THE ENGINEER FOR REVIEW WHEN NON-STANDARD RAMPS ARE USED.
- USE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION), SCDOT QUALIFIED PRODUCT LIST #1 AND DETECTABLE WARNING MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- PROVIDE A 300-RESISTANT BROOM FINISH ON CONCRETE WITHIN THE DESIGNATED PEDESTRIAN ACCESS ROUTE. CONSTRUCT DESIGNATED PEDESTRIAN ACCESS ROUTES LOCATED ON ASPHALT PAVEMENTS AS LEVEL AS PRACTICAL AND REMOVE LOOSE OR UNCOMPACTED ASPHALT THROUGH THE ENTIRE ACCESS ROUTE.
- COORDINATE THE RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO THAT DETECTABLE WARNINGS FOR RAMPS AND REFUGE ISLANDS ARE ENTIRELY WITHIN PEDESTRIAN CROSSWALK MARKINGS.
- SEE STANDARD DRAWING 026-305-05 FOR CROSSWALK MARKING STYLES.
- CONSTRUCT SIDEWALK, PARALLEL RAMP, AND LANDING CROSS SLOPES AT 1:20 (5% TO 5.5%) TOWARD THE ROADWAY. CONSTRUCT CROSS SLOPE OF PERPENDICULAR RAMPS TO MATCH ROADWAY GRADE.
- CONSTRUCT RUNNING SLOPE OF NEW CURB RAMPS AT A 1:20 (5%) OR FLATTER WHEN MEASURED ALONG THE DIRECTION OF PEDESTRIAN TRAVEL UP THE RAMP AND RELATIVE TO A LEVEL GRADE UNLESS FIELD CONDITIONS REQUIRE A RAMP GREATER THAN 12' LONG.
- USE AT LEAST 18" CURB RADIUS AT ALL EDGES OF NEW CONCRETE ISLANDS AND AT LEAST 6" CURB RADIUS AT ALL CURB RETURNS. DO NOT SAW CUT EDGES THROUGH ISLANDS OR AT RAMPS FOR NEW CONSTRUCTION.
- DO NOT CONSTRUCT STANDARD RAMP PARTITIONS OR CURB RETURNS TALLER THAN 12". IN LOCATIONS WHERE GRADE SEPARATION BETWEEN SIDEWALK AND ADJACENT PROPERTY EXCEEDS 12" SLOPE ADJACENT GRADE AS DIRECTED BY THE ENGINEER OR PROPERTY OWNER (2:1 OR FLATTER). WHERE REGRADING OF ADJACENT PROPERTY IS NOT PRACTICAL, PROVIDE A RETAINING WALL AS SHOWN IN THE PLANS, SPECIAL PROVISIONS, OR AS DIRECTED BY THE ENGINEER.
- REMOVE AND DISPOSE OF ALL WASTE AND EXCESS MATERIAL FROM COMPLETED RAMP.
- IN LOCATIONS WHERE ARCHITECTURAL TREATMENTS (EMBEDDED ASPHALT, ARCHITECTURAL FLAVES, STAMPED CONCRETE, ETC.) ARE INCLUDED IN THE PLANS, DO NOT PLACE THE ARCHITECTURAL TREATMENTS WITHIN THE PEDESTRIAN RAMP OR LANDING, HOWEVER, TYPED OR STAMPED CONCRETE MAY BE USED IN THESE AREAS IF INDICATED IN THE PLANS OR SPECIAL PROVISIONS.
- WHERE PRACTICAL, LOCATE ARCHITECTURAL TREATMENTS ALONG THE BOUNDARY OF THE PEDESTRIAN ACCESS ROUTE RATHER THAN DIRECTLY WITHIN THE PEDESTRIAN ACCESS ROUTE.

**5.00 REFUGE ISLANDS/RAISED MEDIANS**

- IN REFUGE ISLANDS, PROVIDE A MINIMUM OF 2'-0" SEPARATION BETWEEN DETECTABLE WARNINGS ON EITHER SIDE OF THE REFUGE TO DELINEATE WHERE ISLAND BEGINS AND ENDS.
- USE DETECTABLE WARNINGS IN RAISED ISLANDS 6'-0" WIDE OR WIDER IN GENERAL DIRECTION OF PEDESTRIAN TRAVEL THROUGH THE RAMP.
- USE ISLAND STRAIGHT CROSSING ADJACENT TO INTERSECTIONS THROUGH ANY ISLAND LESS THAN 12' WIDE.
- WHEN A MID-BLOCK CROSSING IS REQUIRED, CONSIDER MID-BLOCK STAGGERED CROSSING (220-055-41) TO ENCOURAGE EYE CONTACT BETWEEN THE PEDESTRIAN AND THE ONCOMING TRAFFIC. ALWAYS ANGLE THE STAGGER SO THE PEDESTRIAN TRAVELS THROUGH THE REFUGE FACING THE ONCOMING TRAFFIC.

**15.00 DRAINAGE**

- WHERE PRACTICAL, LOCATE DRAINAGE STRUCTURES OUTSIDE AND UP HILL OF DESIGNATED PEDESTRIAN ACCESS ROUTES.
- WHEN DRAINAGE STRUCTURE MUST BE LOCATED INSIDE OF A PEDESTRIAN ACCESS ROUTE, USE ONLY ADA COMPLIANT DRAINAGE STRUCTURES. USE ADA RATED GRATE AND COVER. WHEN INSIDE PEDESTRIAN ACCESS ROUTES INCLUDING SIDEWALKS, RAMPS, LANDINGS, CROSSWALKS, AND ISLANDS, SEE STANDARD DRAWINGS FOR CATCH BASINS (719-100-XX), DROP INLETS (719-100-XX), AND TRENCH DRAINS (719-200-XX) FOR AVAILABLE OPTIONS.
- DO NOT ELIMINATE DRAINAGE STRUCTURE WITHOUT THE CONSENT OF THE HYDRAULIC ENGINEER.
- PROVIDE RAMP PARTITIONS AS NEEDED TO CONTAIN ROADWAY DRAINAGE OR IF NEEDED TO MAINTAIN GRADING ON ADJACENT PROPERTY. WHEN RAMP PARTITION IS USED, GRADE ADJACENT SOIL WITHIN 1/2" OF THE TOP OF THE RAMP PARTITION AND FLAT FOR AT LEAST 1' BEHIND THE RAMP PARTITION.

**20.00 DETECTABLE WARNINGS**

- FOR STANDARD INSTALLATIONS, USE AT LEAST A 2'-0" X 3'-0" DETECTABLE WARNING AT ALL INTERFACES BETWEEN PEDESTRIAN ACCESS ROUTE OR REFUGE ISLAND AND ADJACENT TRAFFIC. ALWAYS SUPPLY EXCESS DETECTABLE WARNING MATERIAL TO COVER LANDING OR REFUGE BOUNDARY AS SPECIFIED IN THESE STANDARD DRAWINGS. RETROFIT RAMPS DO NOT HAVE SUFFICIENT ROOM TO ACCOMMODATE STANDARD RAMPS MAY USE SMALLER DETECTABLE WARNINGS IF SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS.
- UNLESS SPECIFIED OTHERWISE IN THE PLANS OR SPECIAL PROVISIONS, INSTALL SAFETY YELLOW FEDERAL NUMBER 33530 DETECTABLE WARNINGS. SEE QUALIFIED PRODUCT LIST #1 FOR AVAILABLE COLORS AND USE ONLY COLORS THAT PROVIDE CONTRAST BETWEEN THE ADJACENT MATERIALS.
- FOLLOW DETECTABLE WARNING MANUFACTURER'S INSTALLATION PROCEDURES AND USE ONLY MATERIALS (PRIMER, COAT, ADHESIVE, ETC.) AND METHODS (CONTACT PREPARATION, PLACEMENT, FIELD CUTS, ETC.) THAT ARE SPECIFIED BY THE DETECTABLE WARNING MANUFACTURER AS COMPATIBLE WITH THE SELECTED WARNING PRODUCT.

**20.04 SELECT DETECTABLE WARNING PRODUCT BASED ON THE FOLLOWING CONDITIONS:**

- WET INSET WITH FASTENERS OR REPLACEMENT ANY NEW LOCATION WITH NEW CONCRETE
- WET INSET WITHOUT FASTENERS ONLY WHEN SPECIFIED IN PLANS OR SPECIAL PROVISIONS ONLY ON ASPHALT SURFACES
- ASPHALT APPLIED ONLY WHEN NEW CONCRETE WILL NOT BE PLACED IN RAMP
- DRY BONDED

**20.05 FOR RADIUS INSTALLATIONS, FIELD CUT DETECTABLE WARNING MATERIAL TO FIT BACK OF CURB RADIUS AS SHOWN OR ORDER CUSTOM FABRICATED PIECES TO MATCH CURB RADIUS. EDGE OF DETECTABLE WARNING MUST BE WITHIN 3" OF BACK OF CURB AT ANY MEASURED LOCATION FOR CURVED INSTALLATIONS. COVER ENTIRE BACK OF CURB RADIUS BOUNDARY TO WITHIN 3 INCHES OF BOTH SIDES OF THE LOWER LANDING, WHERE PRACTICAL, MINIMIZE THE NUMBER OF FIELD CUT PIECES IN RADIUS INSTALLATIONS.**

**20.06 DO NOT INSTALL DETECTABLE WARNINGS IN AT-GRADE MEDIANS OR IN MEDIAN LOCATIONS WHERE A RAISED MEDIAN TERMINATES ON ONE SIDE OF A CROSSWALK. NO REFUGE ISLAND IS AVAILABLE IN THESE CASES, SO PEDESTRIAN CROSSWALK SIGNAL SHOULD BE TRIMD TO ALLOW PEDESTRIAN CROSSWALK TO CROSS TO THE NEXT AVAILABLE REFUGE LOCATION.**

**20.07 PLACE ALL STYLE DETECTABLE WARNING MATERIALS FLUSH WITH TOP OF SIDEWALK TO FLUSH +/- 1/8".**

**20.08 LOCATE ENTIRE WARNING BEHIND CURB LINE TO MINIMIZE VEHICLES RIDING OVER THIS FEATURE. LOCATE ONE EDGE OF DETECTABLE WARNING WITHIN 3 INCHES OF THE FACE OF CURB ON MEDIANS ISLANDS AND 0 TO 2 INCHES BEHIND BACK OF CURB AND GUTTER.**

**20.09 ALIGN TRUNCATED DOME PATTERN IN LINE WITH DIRECTION PEDESTRIAN TRAVEL ACROSS THE DETECTABLE WARNING.**

**20.10 GROOVE A 1/2" X 1/2" JOINT IN THE CONCRETE PAD DIRECTLY AROUND THE PERIMETER OF THE DETECTABLE WARNING MATERIAL FOR ALL WET INSET AND GROUTED PAPER STYLES.**

**20.11 APPLY SEALANT AROUND THE PERIMETER AND ALL JOINTS OF THE DETECTABLE WARNING FOR ALL GROUTED PAPER, ASPHALT APPLIED, AND DRY BONDED SURFACE APPLIED STYLE DETECTABLE WARNINGS.**

**25.00 RETROFIT INSTALLATIONS**

- WHEN RETROFITTING PEDESTRIAN RAMPS ON SIDEWALKS, RETROFIT EXISTING CONCRETE ISLANDS AT THE SAME TIME.
- FOR RETROFIT RAMPS, REGARDLESS OF EXISTING SIDEWALK WIDTH, CONSTRUCT FULL SIZE RAMPS AS SHOWN IN THESE STANDARD DRAWINGS, UNLESS RIGHT OF WAY LIMITS DO NOT ACCOMMODATE STANDARD RAMPS OR SHOW OTHERWISE IN THE PLANS OR SPECIAL PROVISIONS.
- USE DRY BONDED SURFACE APPLIED DETECTABLE WARNINGS ONLY IN LOCATIONS WHERE EXISTING GEOMETRY CONFORMS TO REQUIREMENTS FOR A RETROFIT RAMP AND NO NEW CONCRETE WILL BE PLACED IN THE RAMP OR LANDING. PROVIDE A COPY OF THE LATEST VERSION OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO THE RESIDENT ENGINEER BEFORE INSTALLATION OF SURFACE APPLIED DETECTABLE WARNINGS.
- FOR RETROFIT RAMPS, IF NEW CONCRETE IS PLACED IN THE RAMP, USE ONLY WET INSET OR PAPER STYLE DETECTABLE WARNING SYSTEMS.
- FOR ISLAND RETROFITS, SAW CUT EDGES ARE ACCEPTABLE ON AT GRADE PASSES THROUGH ISLANDS IF RAMPS ARE CONSTRUCTED TO DIRECT PEDESTRIANS TO THE TOP OF THE ISLAND. PROVIDE SIDE FLARE EDGES ON THE RAMP TO MINIMIZE TRIP HAZARD. DO NOT USE SAW CUT OR VERTICAL EDGES ON RETROFIT RAMPS IN SIDEWALK.
- PLACE FACTORY EDGES OF THE DRY BONDED SURFACE APPLIED DETECTABLE WARNING TRANSVERSE TO THE DIRECTION OF PEDESTRIAN TRAVEL ACROSS THE DETECTABLE WARNING. FIELD CUT EDGES MAY ONLY BE PLACED AGAINST CURBS, RAMP EDGES, AND ADJACENT DETECTABLE WARNINGS. SEAL PERIMETER AND ALL EDGES OF DRY BONDED SURFACE APPLIED DETECTABLE WARNINGS.

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COLUMBIA, SC 29201

**STANDARD DRAWING**  
PEDESTRIAN RAMPS  
GENERAL NOTES & DEFINITIONS

720-901-01  
EFFECTIVE LETTING DATE: FEBRUARY, 2015

**30.00 MEASUREMENT**

- FOR CURB RAMPS, MEASURE PEDESTRIAN RAMP CONSTRUCTION 7209000 IN SQUARE YARDS BASED ON THE ACTUAL AREA OF RAMPS, TAPERED AND DROPPED CURBS, RAMP PARTITIONS, CURB RETURNS, FLARES, AND GUTTERS SHOWN SHADOWED IN THESE STANDARD DRAWINGS.
- MEASURE DETECTABLE WARNING MATERIAL 7204900 IN SQUARE FEET BASED ON THE ACTUAL INSTALLED AREA OF THE DETECTABLE WARNING USED.
- FOR LOCATIONS IN RAISED MEDIANS WHERE AT-GRADE PASS-THROUGH IS CONSTRUCTED, MEASURE CONCRETE MEDIAN 7206000 IN SQUARE YARDS, BY THE AREA INSIDE THE PERIMETER OF THE RAISED MEDIAN IF THE PASS-THROUGH WAS NOT PRESENT.
- FOR LOCATIONS IN RAISED MEDIANS AND ON EXISTING RAMPS WHERE ONLY THE APPLICATION OF SURFACE APPLIED DETECTABLE WARNING IS REQUIRED, MEASURE SURFACE APPLIED DETECTABLE WARNING 7209100 IN SQUARE FEET BASED ON THE ACTUAL APPLIED AREA OF DETECTABLE WARNING.
- FOR LOCATIONS WHERE EXISTING SIDEWALK IS TO BE REMOVED, MEASURE REMOVAL AND DISPOSAL OF EXISTING PAVEMENT 2023000 IN SQUARE YARDS, BY THE AREA OF SIDEWALK, CURB, AND GUTTER REMOVED FROM THE EXISTING INFRASTRUCTURE.

**40.00 PAYMENT**

- PAY FOR PEDESTRIAN RAMP CONSTRUCTION 7209000 IN SQUARE YARDS AS SHOWN IN THESE DRAWINGS. PAYMENT INCLUDES ALL MATERIALS AND LABOR TO CONSTRUCT PEDESTRIAN RAMP AS SHOWN. NO ADDITIONAL PAYMENT WILL BE MADE FOR COMPONENTS USED TO COMPLETE THE RAMP CONSTRUCTION.
- PAY FOR CONCRETE MEDIAN 7206000 IN SQUARE YARDS AS SHOWN ON STANDARD DRAWINGS 720-105-XX. PAYMENT INCLUDES ALL MATERIALS AND LABOR TO CONSTRUCT PEDESTRIAN PASS THROUGH ACROSS MEDIAN ISLANDS.
- PAY FOR DETECTABLE WARNING MATERIAL 7204900 IN SQUARE FEET AS SHOWN IN THESE DRAWINGS WHEN NEW CONCRETE IS PLACED. INCLUDE IN THIS QUANTITY THE MATERIALS AND LABOR TO INSTALL THE WARNING MATERIAL OF THE COLOR AND STYLE SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS OR PROVIDE A SAFETY YELLOW ACTUALLY STYLE PRODUCT WHEN THE STYLE IS NOT SPECIFIED.
- PAY FOR SURFACE APPLIED DETECTABLE WARNING 7209100 IN SQUARE FEET AS SHOWN IN THESE DRAWINGS WHEN INSTALLING SURFACE APPLIED DETECTABLE WARNINGS ON ASPHALT OR WHEN RETROFITTING EXISTING RAMPS. PAYMENT INCLUDES ALL MATERIALS AND LABOR TO INSTALL THE SURFACE APPLIED DETECTABLE WARNING AS SHOWN.
- PAY FOR REMOVAL AND DISPOSAL OF EXISTING PAVEMENT 2023000 IN SQUARE YARDS.

**DETAIL 1**  
SCALE: 1/2" = 1'-0"  
DOMED SPACING

**DETAIL 2**  
SCALE: 3/8" = 1'-0"  
PLAN - DETECTABLE WARNING PLACEMENT

**DETAIL 3**  
SCALE: 1/2" = 1'-0"  
ELEVATION

**SCDOT**  
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DESIGN STANDARDS OFFICE  
955 PARK STREET  
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**STANDARD DRAWING**  
PEDESTRIAN RAMPS  
GENERAL NOTES & DEFINITIONS

720-901-02  
EFFECTIVE LETTING DATE: FEBRUARY, 2015

**REFERENCES**

NATIONAL DOCUMENTS  
REVISED DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY NOVEMBER, 2005  
MUTCD 2009

SCDOT DOCUMENTS  
SCDOT TRANSITION PLAN  
OPL 61

RELATED DRAWINGS & KEYWORDS  
025-305-00

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**99.00 DEFINITIONS**

**CHANNELIZING ISLAND** - RAISED CONCRETE OR PLANTED ISLAND USED TO SEPARATE THROUGH TRAVEL LANES AT AN INTERSECTION FROM THE UNSIGNALIZED CHANNELIZED RIGHT TURN.

**CURB** - STANDARD 6" HIGH CONCRETE ELEMENT THAT SEPARATES SIDEWALK FROM GUTTER.

**CURB RADIUS** - CIRCULAR PATH OF A CURB AROUND A CORNER. CURB RADIUS IS MEASURED FROM THE FACE OF CURB TO THE CENTER OF THE CURB CONSTRUCTED.

**CURB RAMP** - SEE "PEDESTRIAN RAMP".

**CURB RETURN** - A PORTION OF CURB WRAPPED ADJACENT TO A RAMP OR LANDING TO ACCOUNT FOR GRADE DIFFERENCES. CONSTRUCT CURB RETURNS ADJACENT TO GRASS OR PLANTED AREAS.

**DETECTABLE WARNING** - A SURFACE FEATURE OF TRUNCATED DOME MATERIAL BUILT IN OR APPLIED TO THE WALKING SURFACE TO ADVISE OF AN UPCOMING CHANGE FROM PEDESTRIAN TO VEHICULAR WAY.

**DRIVEWAY APPROACH** - A PORTION OF SIDEWALK THAT PROVIDES VEHICLE ACCESS ONTO ADJACENT PROPERTY. DRIVEWAY APPROACH MUST CONTAIN AT LEAST A 3' WIDE DRIVEWAY PEDESTRIAN PATH. NOTE THAT PORTIONS OF THE DRIVEWAY APPROACH OUTSIDE OF THE DRIVEWAY PEDESTRIAN PATH MAY BE CONSTRUCTED AS NEEDED TO FIT SITE CONDITIONS AND TO ACCOMMODATE THE VEHICLE TYPE USING THE DRIVEWAY, AND THEREFORE, MAY NOT CONFORM TO RULES FOR PEDESTRIAN ACCESSIBILITY.

**DRIVEWAY PEDESTRIAN PATH** - THE PORTION OF A DRIVEWAY APPROACH THAT PROVIDES A PEDESTRIAN ACCESS ROUTE.

**EXISTING COMPLIANT RAMP** - A RAMP THAT MEETS THE GEOMETRY REQUIREMENTS FOR NEW RAMP CONSTRUCTION. DRY BONDED DETECTABLE WARNINGS MAY BE APPLIED TO EXISTING COMPLIANT RAMP ALTERNATE TO FLARE.

**FLARE** - A VARIABLE TRANSITION SLOPE (NOT TO EXCEED 10%IV) THAT ACCOUNTS FOR GRADE DIFFERENCES BETWEEN A RAMP AND ADJACENT SURFACES. ALTERNATE TO CURB RETURNS.

**GUTTER** - A CONCRETE EDGE TREATMENT ON THE SIDE OF A ROADWAY TO CONVEY WATER.

**HANDRAIL** - A HORIZONTAL OR SLOPING RAIL INTENDED FOR GRASPING BY THE HAND FOR GUIDANCE AND SUPPORT.

**LANDING** - MINIMUM 4' X 4' AREA AT THE TOP OR BOTTOM OF A RAMP. CONSTRUCT ALL LANDINGS SUCH THAT EITHER CROSS SLOPE OR RUNNING SLOPE IS AT 1:100 NOMINAL (NOT TO EXCEED 50%IV).

**MEDIAN** - THE AREA BETWEEN TWO ROADWAYS OF A DIVIDED HIGHWAY MEASURED FROM EDGE OF TRAVELED WAY TO EDGE OF TRAVELED WAY. THE MEDIAN EXCLUDES TURN LANES. THE MEDIAN WIDTH MUST BE DIFFERENT BETWEEN INTERSECTIONS, INTERCHANGES, AND AT OPPOSITE APPROACHES OF THE SAME INTERSECTION.

**PARALLEL RAMP** - A RAMP THAT EXTENDS IN THE SAME DIRECTION AS THE FLOW OF PEDESTRIAN TRAVEL ALONG THE LENGTH OF SIDEWALK.

**PERPENDICULAR RAMP** - A PERSON ON FOOT, IN A WHEELCHAIR, ON SKATES, OR ON A SKATEBOARD.

**PEDESTRIAN ACCESS ROUTE** - A CONTINUOUS AND UNOBSTRUCTED WALKWAY WITHIN A PEDESTRIAN CIRCULATION PATH THAT PROVIDES ACCESSIBILITY.

**PEDESTRIAN BYPASS** - PORTION OF SIDEWALK AVAILABLE FOR NAVIGATION AROUND A PERPENDICULAR RAMP. CONSTRUCT PEDESTRIAN BYPASS AT LEAST 5' WIDE.

**PEDESTRIAN CIRCULATION PATH** - A PREPARED EXTERIOR OR INTERIOR WAY OF PASSAGE PROVIDED FOR PEDESTRIAN TRAVEL.

**PEDESTRIAN GUARD** - A BOUNDARY STRUCTURE OF SPECIFIED GEOMETRY AND STRENGTH THAT IS LOCATED BETWEEN THE PEDESTRIAN ACCESS ROUTE AND A FIXED HAZARD SUCH AS A DROP OFF.

**PEDESTRIAN PASS THROUGH** - PATH WITHIN A RAISED MEDIAN THAT IS AT GRADE WITH ADJACENT ROADWAY. CONSTRUCT PEDESTRIAN PASS THROUGH AT LEAST 6' WIDE.

**PEDESTRIAN RAMP** - A COLLECTIVE TERM USED BY SCDOT TO INCLUDE CURB RAMPS AND BLENDED TRANSITIONS AS DEFINED BY THE U.S. ACCESS BOARD. AND IS INCLUSIVE OF ALL LANDINGS, PADS, AND CURB RETURNS. EXCEPT FOR MINIMUM 12" WIDE LANDING UPPER LANDING, CONSTRUCT RAMPS WITH A NOMINAL 1:20 (5%) CROSS SLOPE (NOT TO EXCEED 50%IV) AND A 1:20 (5%) CROSS SLOPE (NOT TO EXCEED 50%IV) TOWARD THE ROADWAY. ON THESE GRADE SECTIONS, THE "RAMP" SHALL BE LENGTHY ENOUGH TO MAINTAIN THE MINIMUM ALLOWABLE SLOPE. THE MINIMUM LENGTH SHALL BE:

**PERPENDICULAR RAMP** - A RAMP THAT EXTENDS 90 DEGREES FROM THE FLOW OF PEDESTRIAN TRAVEL ALONG THE LENGTH OF SIDEWALK.

**RETROFIT RAMP** - RECONSTRUCTION OF A PORTION OF EXISTING SIDEWALK TO PROVIDE MOST ACCESSIBLE PATH PRACTICAL WITHOUT IMPACTING ADJACENT PROPERTY. WHERE PRACTICAL; RECONSTRUCT RETROFIT RAMP SLOPES TO MEET CURRENT CONSTRUCTION STANDARDS.

**ROADWAY** - PUBLIC RIGHTS-OF-WAY ACCESS ADVISORY COMMITTEE.

**RAILROAD CONSTRUCTION ZONE** - PORTION OF ROADWAY AND SIDEWALK THAT ARE CONSTRUCTED BY RAILROAD CONTRACTORS. USE MATERIALS AND METHODS SPECIFIED BY THE PROPERTY OWNER.

**RAILROAD FLANGE WAY FILTER** - PREFABRICATED PRODUCT USED TO MINIMIZE PHYSICAL GAPS AROUND RAILS. ANY RAILROAD FLANGE WAY FILTER USED MUST ALSO BE APPROVED BY THE OWNER OF THE RAILROAD REGARDLESS OF THE PROPERTY OWNER AT THE CROSSING.

**RAMP SIDEWALK CONNECTION ZONE** - SIDEWALK INTERSECTION BETWEEN TYPICAL SIDEWALK OR RAMP AND THE RAILROAD CONSTRUCTION ZONE. THIS INTERFACE IS GENERALLY CONSTRUCTED AFTER WORK IN THE RAILROAD CONSTRUCTION ZONE IS COMPLETE. USE MATERIALS AND METHODS SPECIFIED BY THE PROPERTY OWNER.

**RAMP PARTITION** - A PORTION OF CURB BEHIND THE SIDEWALK THAT SEPARATES LANDING FROM ADJACENT PROPERTY. CONSTRUCT RAMP PARTITION AT ALL LOCATIONS WHERE ROADWAY DRAINAGE COULD DISCHARGE ONTO ADJACENT PROPERTY. CONSTRUCT RAMP PARTITION IF NEEDED TO RETAIN EXISTING GROUND ELEVATION ON ADJACENT PROPERTY.

**REFUGE ISLAND** - A RAISED CONCRETE MEDIAN OR RAISED PLANTED MEDIAN THAT IS AT LEAST 6'-0" WIDE. RAISED MEDIAN ISLANDS MUST BE PRESENT ON BOTH SIDES OF THE PEDESTRIAN PATH TO BE CONSIDERED A REFUGE.

**RETROFIT RAMP** - RECONSTRUCTION OF A PORTION OF EXISTING SIDEWALK TO PROVIDE MOST ACCESSIBLE PATH PRACTICAL WITHOUT IMPACTING ADJACENT PROPERTY. WHERE PRACTICAL; RECONSTRUCT RETROFIT RAMP SLOPES TO MEET CURRENT CONSTRUCTION STANDARDS.

**ROUNDABOUT** - A CIRCULAR INTERSECTION WITH YIELD CONTROL ENTRY, WHICH PERMITS A VEHICLE ON THE CIRCULATORY ROADWAY TO PROCEED, AND WITH DEFLECTION OF THE APPROACHING VEHICLE COUNTER-CLOCKWISE AROUND A CENTER ISLAND.

**RUNNING SLOPE** - THE GRADE THAT IS PARALLEL TO THE DIRECTION OF TRAVEL, EXPRESSED AS A RATIO OF RISE TO RUN OR AS A PERCENT.

**SIDEWALK** - THAT PORTION OF A STREET BETWEEN THE CURB LINE, OR THE LATERAL LINE OF A ROADWAY, AND THE ADJACENT PROPERTY LINE OR ON EASEMENTS OF PRIVATE PROPERTY THAT IS PAVED OR IMPROVED AND INTENDED FOR USE BY PEDESTRIANS. CONSTRUCT SIDEWALK WITH A NOMINAL 1:20 (5%) CROSS SLOPE (NOT TO EXCEED 50%IV) TOWARD THE ROADWAY, WHEN CONNECTED TO THE ROADWAY BY CURB AND GUTTER, SIDEWALK SHOULD FOLLOW ROADWAY GRADE UNLESS NOTED OTHERWISE IN THE PLANS OR SPECIAL PROVISIONS.

**SPLITTER ISLAND** - RAISED CONCRETE OR PLANTED ISLAND AT THE APPROACHES TO ROUNDABOUTS USED TO SEPARATE TRAFFIC ENTERING THE ROUNDABOUT FROM TRAFFIC EXITING THE ROUNDABOUT.

**TAPERED CURB** - A PORTION OF CURB THAT TRANSITION FROM A STANDARD 6" HIGH CURB TO GUTTER ELEVATION.

**WALKWAY** - THE CONTINUOUS PORTION OF THE PEDESTRIAN ACCESS ROUTE THAT IS CONNECTED TO STREET CROSSINGS BY CURB RAMPS OR BLENDED TRANSITIONS.

**TABLE 720-901A**

RAMP SYMBOL	GRADE	
	NOMINAL SLOPE	MAXIMUM SLOPE
ROAD GRADE (SITE SPECIFIC GRADE)	ROAD GRADE (SITE SPECIFIC GRADE)	ROAD GRADE (SITE SPECIFIC GRADE)
	CROSS SLOPE 1:100 (1%) (OR FLATTER)	CROSS SLOPE 5:1 (2%) (OR FLATTER)
RAMP 9:1 (11%)	RAMP 9:1 (11%)	RAMP 12:1 (6.3%) (OR FLATTER)
	FLARE 11:1 (9.1%) [ADDITIONAL RETROFIT USE]	FLARE 10:1 (10%) [ADDITIONAL RETROFIT USE]
PARALLEL RAMP (RAMP & CROSS SLOPE)	LANDING/FLARE WALKWAY (CROSS SLOPE & ROAD GRADE)	PERPENDICULAR RAMP (RAMP & ROAD GRADE)

1. RAMP SYMBOLS SHOWN IN TABLE 720-901A INDICATE THE NOMINAL SLOPE AND MAXIMUM ALLOWABLE SLOPE FOR PEDESTRIAN RAMP COMPONENTS. DO NOT EXCEED THE VALUES LISTED FOR MAXIMUM ALLOWABLE SLOPE UNLESS DIRECTED BY THE ENGINEER.

2. SEE ISOMETRIC VIEW SHOWN ON EACH STANDARD RAMP DETAIL FOR LOCATION OF RAMP SYMBOLS.

3. SECTION ARROWS INDICATE VERTICAL ELEVATION CHANGE FROM A POINT OF HIGH ELEVATION (TAB) TO A POINT OF LOW ELEVATION (TP).

4. FOR CURB RAMPS ONLY, SLOPE CAN BE EXCEEDED IF CALCULATED CURB RAMP LENGTH IS > 15'.

**SCDOT**  
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DESIGN STANDARDS OFFICE  
955 PARK STREET  
ROOM 405  
COLUMBIA, SC 29201

**STANDARD DRAWING**  
PEDESTRIAN RAMPS  
GENERAL NOTES & DEFINITIONS

720-901-03  
EFFECTIVE LETTING DATE: FEBRUARY, 2015

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**SOUTH CAROLINA**  
REGISTERED PROFESSIONAL ENGINEER  
NO. 21242  
JAMES W. KENDALL  
12/31/2014

**SOUTH CAROLINA**  
REGISTERED PROFESSIONAL ENGINEER  
NO. 5336  
CAGLE CONSULTING ENGINEERS LLC  
STATE OF AUTHORITY

**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
Project No. 1236  
Site Address: CITY OF GEORGETOWN, SC

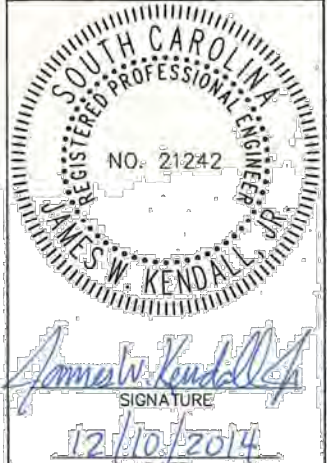

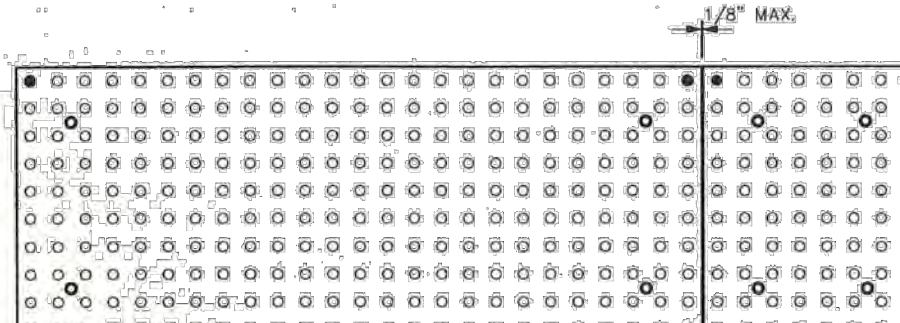
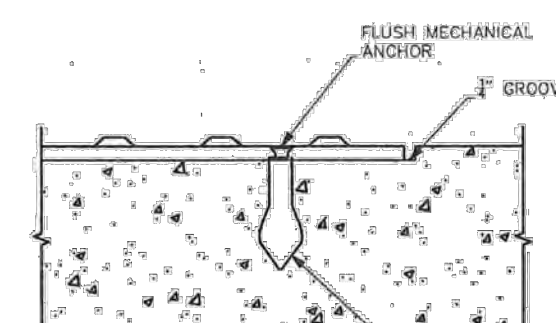
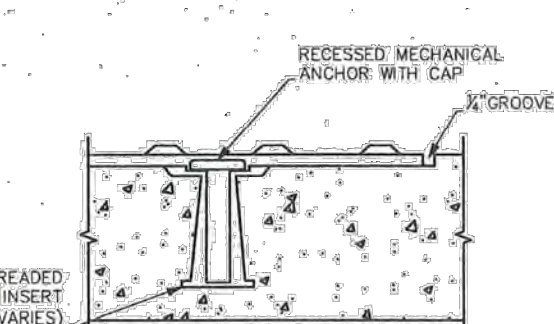
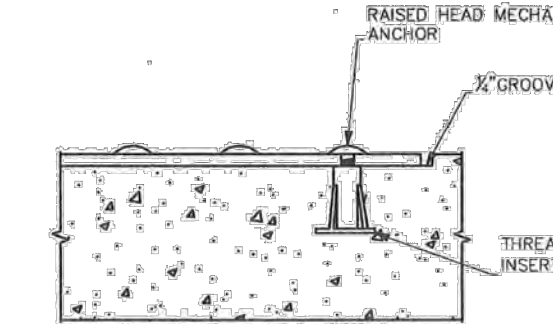
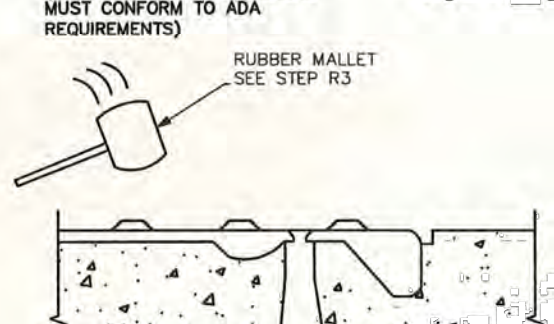
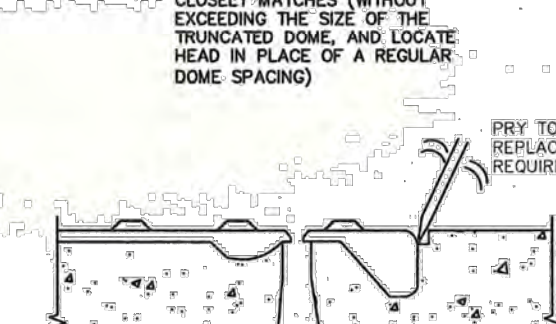
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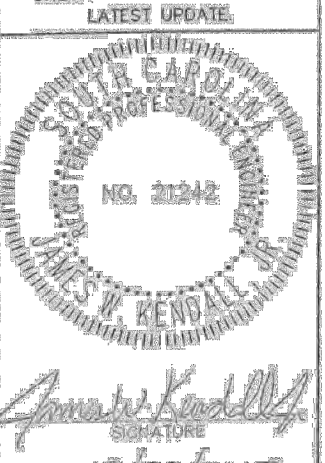

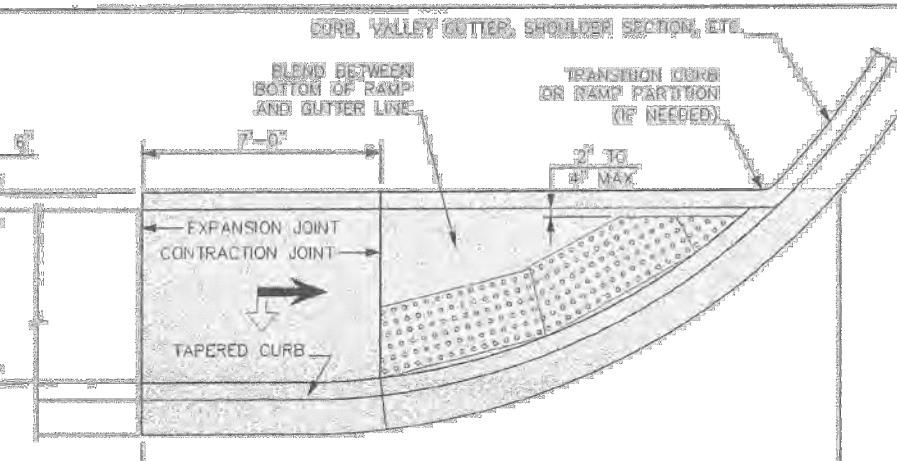
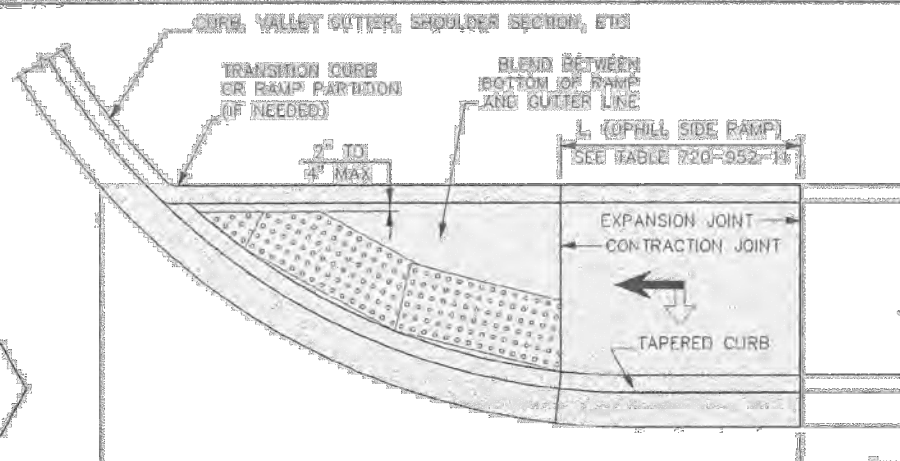
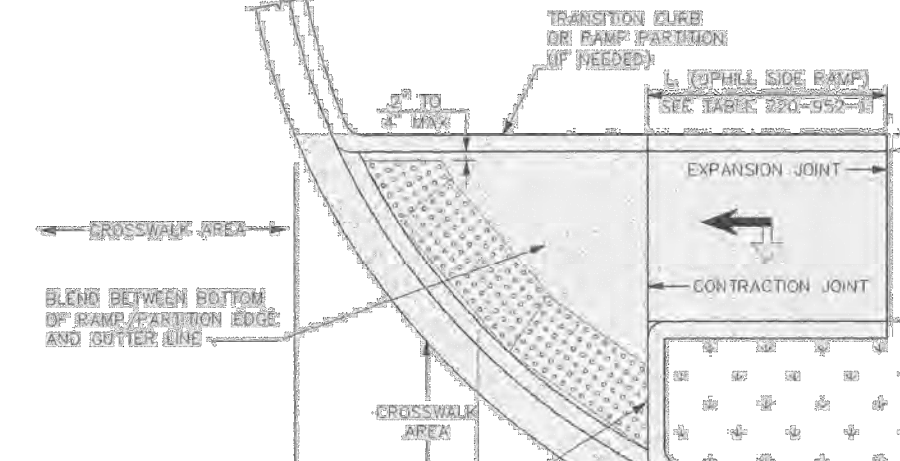
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B	ISSUE FOR BIDS	BC

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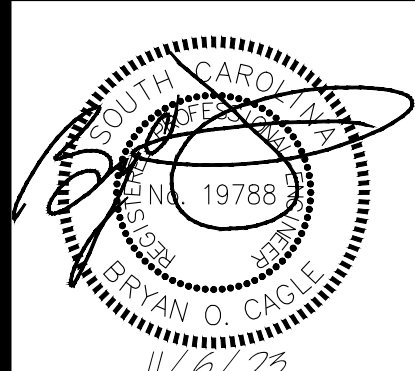


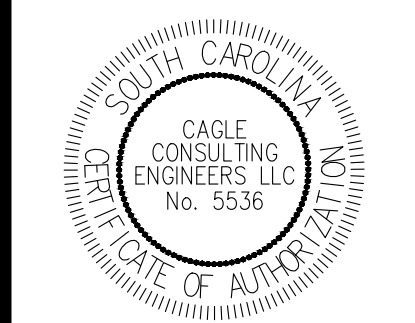
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<p><b>REFERENCES</b></p> <p>NATIONAL DOCUMENTS</p> <p>SCDOT DOCUMENTS OPL 61</p> <p>RELATED DRAWINGS &amp; KEYWORDS</p> <p>THIS DRAWING IS ONLY VALID FOR CONSTRUCTION WHEN SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. CHECK WWW.SCDOT.GOV FOR LATEST UPDATE.</p> <p style="text-align: center;">               Amanda Kuddell              12/16/2019              DATE         </p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>#</th> <th>DATE</th> <th>CHK</th> <th>DESCRIPTION</th> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>12/2014</td> <td>JMG</td> <td>MODIFIED NOTES</td> </tr> <tr> <td>0</td> <td>8/2012</td> <td>DSO</td> <td>NEW DRAWING</td> </tr> </table> <p style="text-align: center;">               SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION              DESIGN STANDARDS OFFICE              925 PARK STREET              ROOM 405              COLUMBIA, SC 29201         </p> <p><b>STANDARD DRAWING</b> DETECTABLE WARNING MATERIAL WET INSET MECHANICAL ANCHORS &amp; THREADED INSERTS</p> <p style="text-align: center;">720-910-01 EFFECTIVE LETTING DATE: FEBRUARY, 2015</p>	#	DATE	CHK	DESCRIPTION	6				5				4				3				1	12/2014	JMG	MODIFIED NOTES	0	8/2012	DSO	NEW DRAWING	 <p style="text-align: center;">DETAIL 1 PLAN VIEW DETECTABLE WARNING</p>  <p style="text-align: center;">DETAIL 2 FLUSH MECHANICAL ANCHOR OPTION 1 WET INSET OR REPLACEABLE INSTALLED</p>  <p style="text-align: center;">DETAIL 3 RECESSED MECHANICAL ANCHOR WITH CAP OPTION 2 (FLUSH MECHANICAL ANCHORS MUST CONFORM TO ADA REQUIREMENTS)</p>  <p style="text-align: center;">DETAIL 4 RAISED HEAD MECHANICAL ANCHOR OPTION 3, USE RAISED HEAD THAT MOST CLOSELY MATCHES (WITHOUT EXCEEDING THE SIZE OF THE TRUNCATED DOME, AND LOCATE HEAD IN PLACE OF A REGULAR DOME SPACING)</p>  <p style="text-align: center;">DETAIL 5 RUBBER MALLETS SEE STEP R3</p>  <p style="text-align: center;">DETAIL 6 REPLACEABLE PRY EXISTING SURFACE FOR REMOVAL</p> <p style="text-align: center;">DETAIL 6 THREADED INSERT WILL STAY IN PLACE</p>	<p><b>INSTALLATION NOTES:</b></p> <ol style="list-style-type: none"> <li>SEE SHEETS 720-901-XX FOR GENERAL NOTES. USE WET INSET STYLE DETECTABLE WARNING LISTED ON SCDOT QUALIFIED PRODUCT LIST BY ONLY IN LOCATIONS WHERE NEW CONCRETE IS BEING POURED FOR RAMPS. DETAILS SHOWN MAY INCLUDE PROPRIETARY COMPONENTS, HOWEVER, ANY SYSTEM LISTED ON OPL61 AS WET INSET OR REPLACEABLE IS ACCEPTABLE FOR USE IN THESE CONDITIONS.</li> <li>FOLLOW DETECTABLE WARNING MATERIAL MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THESE STANDARD DRAWINGS. WHERE CONFLICTS EXIST BETWEEN INSTALLATION PROCEDURES, PROVIDE A CERTIFICATION LETTER FROM THE MANUFACTURER STATING THE APPROPRIATE PROCEDURE(S) AND JUSTIFICATION THAT THE PROPOSED PROCEDURE WILL IMPROVE LONG TERM PERFORMANCE. NOTE TO RES: SUBMIT A COPY OF THE CERTIFICATION LETTER TO THE DESIGN STANDARDS OFFICE SO THAT FUTURE DRAWINGS CAN MINIMIZE CONFLICTS.</li> <li>HAVE ALL MATERIALS NEEDED TO COMPLETE INSTALLATION AVAILABLE BEFORE PLACING CONCRETE.</li> <li>MINIMIZE THE USE OF FIELD CUT PIECES, UNLESS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS. INSTALL ALL FIELD CUT EDGES ALONG ONLY ONE SIDE OF THE WARNING PATTERN, CUT WARNING MATERIAL TO MEET THE REQUIRED GEOMETRY OF THE RAMP WHILE MINIMIZING THE CUTTING OF DOMES.</li> <li>ATTACH AND TIGHTEN AT LEAST FOUR (4) MECHANICAL ANCHORS WITH THREADED INSERTS INTO THE DETECTABLE WARNING MATERIAL. USE ADDITIONAL MECHANICAL ANCHORS AND THREADED INSERTS IF SPECIFIED BY THE MANUFACTURER OR REQUIRED BY THE ENGINEER.</li> <li>CONSTRUCT LANDING AS SHOWN ON APPROPRIATE STANDARD DRAWING FOR THE RAMP STYLE SELECTED.</li> <li>WORK PANELS DOWNWARD AS NECESSARY INTO THE LOCATION SHOWN.</li> <li>EVENLY PRESS THE ASSEMBLED WARNING MATERIAL INTO THE CONCRETE UNTIL THE TILE IS FLUSH WITH THE CONCRETE SURFACE.</li> <li>TAP USING A RUBBER MALLETT TO REMOVE AIR POCKETS. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS TO REMOVE AIR POCKETS AROUND THREADED INSERTS AND UNDER WARNING MATERIAL. FINISHED PRODUCT SHOULD HAVE NO BUBBLES OR AIR POCKETS THAT MOVE WHEN STEPPED ON.</li> <li>SCORE A 3/8" DEEP AND WIDE GROOVE AROUND THE DETECTABLE WARNING.</li> <li>PRY WEIGHTS IF NECESSARY TO KEEP DETECTABLE WARNING FLUSH WITH TOP OF CONCRETE.</li> <li>CLEAN SURFACE OF LOOSE CONCRETE AND DEBRIS. IF PRESENT, REMOVE PROTECTIVE COVERING FROM DETECTABLE WARNING MATERIAL.</li> </ol> <p><b>REPLACEMENT NOTES:</b></p> <ol style="list-style-type: none"> <li>VERIFY THAT EXISTING WARNING MATERIAL IS A REPLACEABLE SYSTEM. IF EXISTING WARNING MATERIAL IS DAMAGED, ORDER REPLACEMENT MATS FROM SAME MANUFACTURER AS EXISTING INSTALLATION.</li> <li>EXPOSE FASTENERS AND REMOVE.</li> <li>TAP PERIMETER OF TILE WITH A RUBBER MALLETT TO LOOSEN THE BOND OF DETECTABLE WARNING MATERIAL TO THE CONCRETE.</li> <li>PRY DETECTABLE WARNING MATERIAL FROM CONCRETE.</li> <li>REPAIR ANY DAMAGED CONCRETE. IF NEEDED, REMOVE AREA LARGE ENOUGH TO INSTALL A NEW REPLACEABLE DETECTABLE WARNING MATERIAL.</li> <li>VACUUM OR SWEEP ALL DEBRIS FROM CREVICES.</li> <li>CUT NEW DETECTABLE WARNING MATERIAL IF NEEDED TO MATCH EXISTING CUT.</li> <li>PLACE NEW DETECTABLE WARNING INTO EXISTING SPACE.</li> <li>INSERT REPLACEMENT ANCHORS AND HAND TIGHTEN. GENTLY APPLY PRESSURE TO SEAT TILE IN RECESS, FULLY TIGHTEN BOLTS.</li> <li>INSTALL BOLT COVERS IF APPLICABLE.</li> </ol>
#	DATE	CHK	DESCRIPTION																											
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TABLE 720-852-11 (SEE 720-928-01, 9-10)												
ROAD SLOPE, S (%)	L (UPHILL SIDE RAMP), [FT]											
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 BRYAN O. CAGLE  
 11/01/23

  
 CAGLE CONSULTING ENGINEERS, LLC  
 No. 5536

**GILBERT, HAWKINS, BUTTS ST. SIDEWALK**  
 Project No. **1236**  
 Site Address: **CITY OF GEORGETOWN, SC**

**SCDOT DETAILS**

REV	DESCRIPTION	BY
A	ISSUE FOR PERMITTING	BC
B	ISSUE FOR BIDS	BC

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